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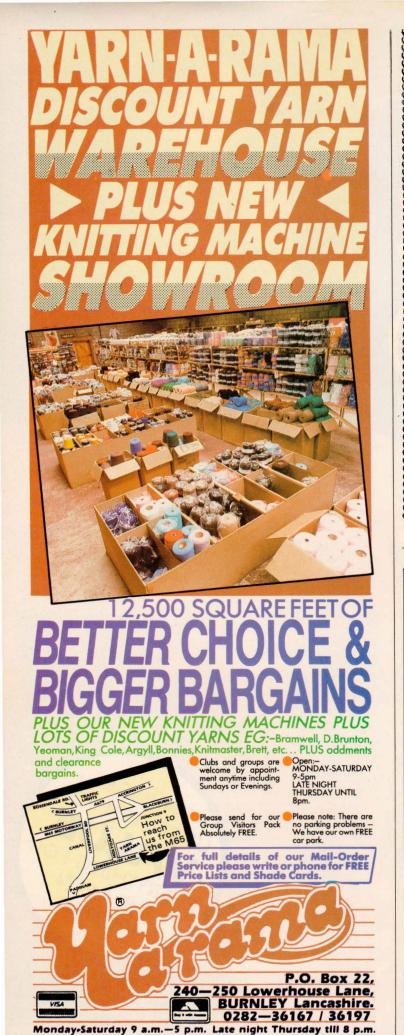
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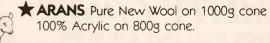


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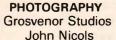
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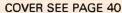
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47,492 Copies sold every month (Source: Audit Bureau of Circulations) January-June 1987 This equates to 94,984 readers every month (Source: Readership Survey December 1986)



# Dear Readers

We seem to be forever breaking new frontiers.

We now have over 50,000 readers per month, and that's official, and this month's MKN has, for the first time, more than 100 pages and every one packed with items to do with our favourite pastime - machine knitting.

According to your replies to our survey - and a big thank you to the hundreds of you who sent them in - you really appreciate the patterns and the clear way they are written. Well, this month we again have some good designs for all machines including a pattern for the garter carriage. Young people are catered for, with the stylish mini skirt and boxy top, very up to date, and two attractive little suits with a choice of skirts for the younger girl. The lady's suit in Hobby and Silky will be just right for Summer wear and the sleeveless dress with over-jacket would serve well for a more formal occasion.

For the Duomatic knitters there is a casual overtop using the drop stitch technique. A cheerful sunshine motif is the feature of the boy's sweater and for men a 'V'-neck and a cardigan pattern are included.

Cheerful colours used in an eye-catching way denote the student design while the sleeveless top for Bond knitters uses contrast embroidery to enhance a simple plain garment. There are the usual features from your old friends, Carol, Hazel and George, whilst Keni has obviously been reading the holiday brochures and got all enthusiastic about those far-away holiday spots for her Intarsia theme.

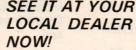
Do look at Design Line this month, I think you will really be interested in this technique. There are scores of possibilities for its use. The letters on page 12 see the close of the subject of the proposed City & Guilds certificate. Plans are now well advanced and it looks as if this will be a reality in the very near future.

Speaking of the future, the Out and About spot this month delves into the electronic age of machine knitting with its continuous developments. Very exciting if somewhat daunting and certainly far removed from the basic models many of us first used.

Heigh ho! Those were the days.







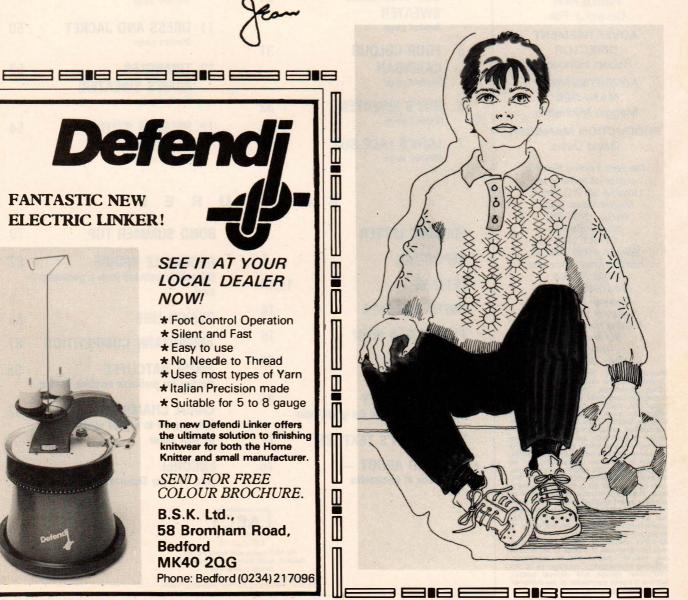
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# REPORTING

Pages of news, views and reviews. The editor reports on what's new in the machine knitting world, plus all the latest yarns, machines and publications. You'll find it first on these pages



The interior of Elsie's Wools showing the huge range of yarns available

There are many uses for Velcro but do you know about some of their latest products? Spot Ons are selftacking and are exactly what they say - small circles of Velcro that can be used instead of buttons/zips on garments and are especially useful for children's and disabled people's garments. Once held by the small tacky strip, the spots can then be sewn down, and they come in six colours to match your garment.

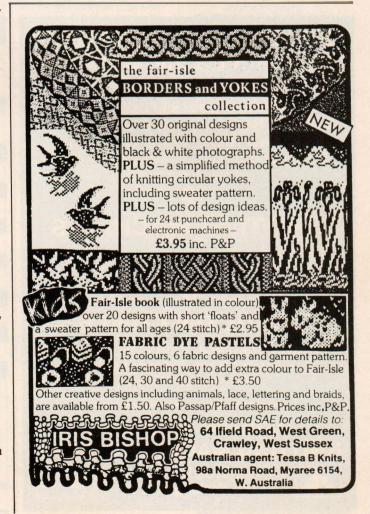
Another thing that I use Velcro for is shoulder pads in garments. By sewing a small Velcro strip on to my pad and the other strip to my garment shoulder seam, I can have a shoulder pad that is easily removed for washing. Look out for Velcro products at your local haberdashers.

Now on to another item that you may not know about and also available at your haberdashers. From Vilene, Wundaweb is perfect for easy 'hemming' of a garment. Obviously it needs to be used on a fabric that can be pressed, but Wundaweb will give a neat hem with no stitch marks. We are at present trying out in the office a new accessory from BSK. The Calcuknit looks like an ordinary calculator, and can indeed be used as one, but it is in fact a knitting computer/calculator. The instruction book does need

to be followed closely as it does look rather difficult to comprehend at first glance, but so do many things until you understand what you are doing! With the Calcuknit you can compute in all the dimensions needed for a garment, including stitches, rows, increase/ decrease. It will even input your tension square so that you can use any yarn on any machine. Available only from BSK at present. although they are the importers of this item and will be releasing it to other dealers shortly. It has a recommended retail price of £69.95, but Gary Carter at BSK says it should actually be available slightly cheaper. We will let you know next month how we got on with it. For further information write to BSK Ltd., Murdock Road, Manton Industrial Estate, Bedford MK41 7LE. This paragraph is not about a product, but a company, The Yarn Market/Elsie's Wools at Ton Pentre, S. Wales. It is run by Albert, Elsie and Adrian Cooke. Many of you know this family and their business, but you might not be aware of just what they do sell by mail order. Elsie has been a Knitmaster tutor for some 30 years now and Albert, Elsie and Adrian were happily running their own business when, like many businesses in our trade, everything started to

'take off'. By teaming up with the Yarn Market group they are able to stock tons of yarn (literally), although the mail order yarn is mostly handled by the Uppingham Yarns branch of the Yarn Market group. However, Elsie's Wools specialise in mail order of small haberdashery items, they offer their service to the homeworker who needs small quantities of items -£3 is the minimum order for free carriage, anything ordered under £3 carries a 25p post & packing charge, you can't really get smaller than that.

Buttons, beads, sequin motifs and haberdashery can be posted to you. They do carry items that you might find difficult to locate, rhinestones, small sequined motifs such as leaves, flowers and butterflies as well as beads by Goodwear. Being an Intarsia knitter. I was very interested in their Fair Isle/Intarsia bobbins that not only hold the varn but each holder will clip on to another, keeping your work neat and tidy, they retail for around only 35p each. If you write to Albert and Elsie enclosing a large SAE they will send you their price list of haberdashery items and details about yarns, but remember you might find it better to visit the shop for your yarns as many of those in stock are unrepeatable. Clubs can arrange to visit them, even outside shop hours. So for further information about The Yarn Market/Elsie's Wools write to them at Dinam Park Avenue, Ton Pentre. Rhondda, S. Wales or telephone (0443) 431500.



# REPORTING

The Accent on Design seminar at Hastings last year was the biggest and best ever. The Hastings Club has been organising its shows now for six years. This year, October 8th and 9th are the dates for your diary and tickets will be available shortly from the usual sources.

The **Knitting & Crochet Guild** are holding a convention and AGM on the 1st to 3rd July at the Kensington Close Hotel, Wright's Lane, Kensington, London. For further details about the weekend contact Sheila Ryle on 0628 28096.

The **U Knit Club** are holding a Fashion Show on Thursday 28th April at 7.30pm at Faseman House, Faseman Avenue, Tile Hill, Coventry. Admission will be £1 and the show is in aid of charity, so you've still got time to contact Christina Ward at 50 Garth Crescent, Binley, Coventry CV3 2PQ regarding tickets.

There are now some twelve knitting clubs on the Isle of Wight and they are teaming up to hold a Fashion Show at the Medina Theatre, Newport, Isle of Wight, on Thursday 28th July at 7.30pm. They have entitled the show **Spectacular Knitting** and tickets are £1.50 each, available at the Medina Theatre, from any of the clubs or by contacting Margaret McKenzie on Isle of Wight 525383. The show is in aid of the Earl of Mountbatten House Day Centre and the MacMillan Nurses Appeal.

The Selston Knitting Club meet at the Methodist Chapel, Portland Road, Selston, fortnightly on Thursdays at 7.30pm. For further information contact Mrs C. Haynes at 32 Hollyhill Road, Selston, Notts or telephone Selston 813927.

The Evergreen Knitting Club has been running for two years and has around 35 members. They meet every other Wednesday from 7.30pm at the Local Community Centre at Gorleston on Sea. Further information about the club can be obtained from Mrs Linda Lumley, Club Secretary, at 56 St Annes Crescent, Gorleston on Sea, Norfolk or telephone Great Yarmouth 656079.

# SHOWS

The Knitting Well Club meet at the Health Centre, Wilcox Road, Lambeth SW8. They meet on alternate Tuesday evenings from 7.00pm and I am reliably informed that members do try to live up the club's title. Further information about the club can be got from Vi Paxton, 89 Mysore Road, London SW11.

The Codnor MK Club meet on alternate Tuesdays at the OAP Centre, Codnor, Derby from 7.30pm and further information can be obtained from Nancy Gibbs at 7 Horton Close, Swanwick, Derby DE55 1EN.

The Widnes MK Club meet at the Ditton Community Centre, Dundalk Road, Widnes, Cheshire, every Wednesday evening from 7.30pm. They welcome beginners and experienced knitters and further information can be obtained from Amy Duff on 051-425 2833 or by writing direct to the club.

A new club has recently been formed in

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# URMSTON \* SATURDAY MAY 7th \*

Shawe Community Hall, Church Road, Flixton, Greater Manchester.

# CLEETHORPES \* SUNDAY MAY 8th \*

Memorial Hall, Grimsby Road, Cleethorpes, S. Humberside.

# ELLESMERE PORT \* SATURDAY MAY 14th \*

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# SCLUB 0=|=0=|=0=|=

Southam, Warks. The Southam Knitting Club meet at the Welfare Hut, Craven Lane, Southam from 8.00pm on the second Tuesday of each month. Further information can be obtained from Mrs Pam Ball by telephoning 0926 81 3645.

The Tricketts Cross MK Club meet on the first and third Tuesday of each month at 2.00pm. They meet at the Community Centre, Barns Road, Ferndown, Dorset and further information can be had from Mrs June Kinge by telephoning 0202 882019.

In January this year, The Malvern MK Group was born and as we go to press meetings are being worked out, so for further information contact Aileen Pendle, Group Organiser, 48 Beverley Way, Malvern, Worcs WR14 1LA.

The Milton Keynes MK Club still meet every alternate Friday at 7.30pm at the Broadwell Common Meeting Place but Margaret Dancey has moved. If you

require further information you can write to Margaret at 40 Aintree Close, Pippins Estate, Bletchley MK3 5LP.

Don't forget that if you live in North Wales, the Needles & Pins Knitting Club meet every Thursday evening at 7.30pm at Our Lady of the Rosary, Daisy Hill, Buckley, Clwyd.

The Masterknit Knitting Club meet every third Wednesday at 7.30pm and on Saturdays at 2.30pm at Poole, Nr Nantwich, Cheshire. For further information contact Carol on 0270 624999

Yet another new club - this one started with Rosemary Richardson of Rochester thinking about starting a club one Tuesday. She thought that she would have around ten members but by the end of the first 24 hours she already had 23! The Frindsbury Extra Machine Knitting Club are up and running so for further information contact Rosemary at 58 Hollywood Lane, Frindsbury Extra (what a great name), Rochester, Kent ME3 8AR.

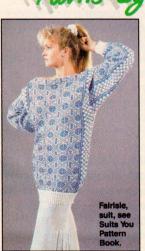
The first meeting was held recently of the Club Organisation Group and some 43 clubs were represented! The Group's aim is to work with all clubs,

promoting interests and activities as well as acting as a main channel for news - using newsletters and the like. At the meeting, several matters were discussed, including pattern swopping and the need for demonstrators and tutors. If you and your club would like to get involved with the COG, contact Marian at Knitters Yarns Ltd, Yarn Market, Ravensworth Road, Dunston, Gateshead NE11 9AB.

The Busy Needles Knitting Club have a change of venue and day. They now meet at the Oxclose Multi-purpose Centre, Ayton Road, Oxclose, Tyne & Wear every Thursday from 6.30pm to 9.00pm. Further details can be obtained from Maureen Glendenning on 091-416 8484. At present, they have just one male knitter in the group and would like to hear from more.

If you are an allsort, you might like to know there is a club just for you. The Allsorts Knitting Club is there because the club is made up of all sorts of people interested in machine knitting. They meet at the Labour Hall, Park Road, Sittingbourne, Kent on the last Wednesday of the month from 7.30pm-9.30pm. Further details can be obtained from Mrs Pam Cox on 0795 842166.

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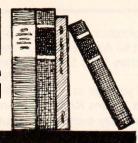
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# REPORTING



# BOOKS BOOKS BOOKS BOOKS BOOKS BOOKS

Crystal Jackson has just produced a new pattern book for chunky machines for Mohair Direct, using their mohair yarn. The Caress Collection contains 16 patterns in a wide range of sizes and features dresses and sweaters for adults and children. Costing £2.95 this pattern book should be available through Mohair Direct stockists.

This is especially for those interested in exhibiting/visiting shows.

The Craftsman's
Directory 1988 is now available and covers many of the exhibitions due to take place this year. Over

600 events are listed and the book also includes Guilds and National Societies, all for £5, which includes p&p. For your copy write to Stephen & Jean Lance Publications, Brook House, Mint Street, Godalming, Surrey GU7 1HE.

The Rowan Knitting
Book 3 is now available
and features designs in
two of their latest yarns,
Cotton Glacé and Mulberry
Silk. Designs by Kaffe
Fassett and Annabel Fox,
amongst others, are
included and although for
handknitters it features
some great designs which
machine knitters may be
able to adapt.

Bond have teamed up with Jaeger to produce the Jaeger Collection. You might recognise the designs as Jaeger hand-knitting patterns, because of this collaboration you can now create top designs using your Bond. The book features five of Jaeger's own yarns and contains six patterns. Available from Bond stockists.

Those with punchcard machines might be interested in a small booklet by Diane Vickers, entitled Oriental Carpet Patterns. Based on motifs and designs from carpets the book contains geometric patterns that could produce some unusual garments and interesting borders. Available direct from Diane at 67 Crake Avenue. Fleetwood FY7 8DQ and it costs £3, which includes p&p.

Just as we were going to press we received details about another new Bond book, the **Bond Knits for Men**, containing 16 designs using yarn from a variety of spinners including Sirdar, Hayfield, Robin and Sunbeam all in 'Cashmilon'. Costing £2.95 the book is available from Bond stockists.

Knitmaster have added yet another book to their growing collection. The Mens and Boys Book using Knitmaster yarns in a variety of designs for men and boys as well as featuring, on some of the designs, the YC-6 Colour Changer and the Knitmaster SRP-60 ribber. Available from Knitmaster stockists.

We have just had the new Bramwell Swissknitter book by Eileen Metcalf arrive at the office. Featuring a collection of basic patterns, this book is versatile enough for any beginner to follow whatever make their standard gauge machine. Designs include 'V'-neck sweaters, men's buttonthrough cardigan, and even skirts are included. Available from Bramwell stockists.

Finally, Posh Frocks by Ann Brown are a series of small booklets each featuring a single outfit. Book Three, for example, is a jumper and sunray skirt using wrapping and weaving techniques. The books are written in a style suitable for all single gauge machines and there are, to date, a series of six. Each booklet costs £2.95 and is available from Posh Frocks, 23 York Close, Whitehill, Bordon, Hampshire GU35 9PX.

You might like to know that due to ill-health, the book-binders/distributors of Weaver Publications have decided to retire. Now, F.W. Bramwell will be taking over the wholesale distribution of the books and any company wishing to place an order should contact Bramwell's direct. Unfortunately Ribbing Attachments 1 & 2 will no longer be printed, so if you need a copy make sure you get one now. In the near future, a new ribber book for Brother machines (punchcard, electroknit and chunky) will be printed.



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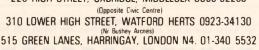


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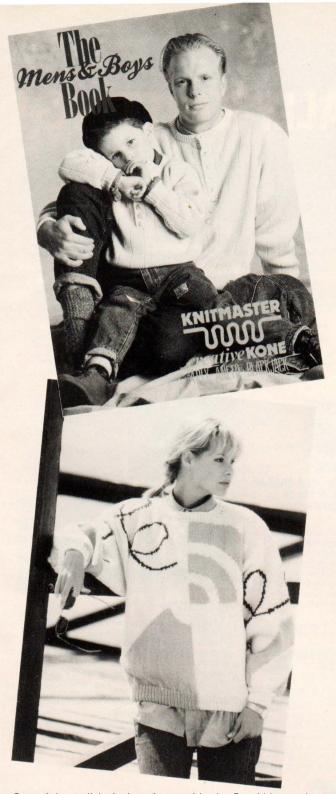
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One of the stylish designs featured in the Bond/Jaeger book recently published

# of YARNS =

Ambervarn have released a new varn on cone called Consort. This 4 ply yarn is available in 24 fashion shades on a 500g cone and is 95% acrylic and 5% nylon. Also available from Amberyarn are three more shades in the Amber Chunky range — Navy, Smoke Grey and Saxe, bringing the colour range to eleven and this yarn is now on a 600g cone.

Many a Mickle have introduced a new yarn to their range, Brushed Alpaca is 70% Alpaca and 30% Courtelle and comes on a 400g cone. The yarn will knit on standard gauge machines and is available in six natural colours. A shade card is available. Send a large SAE to Many a Mickle, (Ref M), Hacking Street, Darwen, Lancs BB3 1AL.

Rowan have released two luxury yarns, Cotton Glacé is a soft cotton yarn with a slight sheen available in eight fashionable designer colours and Mulberry Silk is 100% silk yarn from China, available in a range of vibrant colours. Sheer luxury!

Europa Yarns have sent us details about their latest yarns, too many to mention individually. However, they do carry a large stock of Schewe yarns and they run a mail order service. As you may know, Europa Yarns specialise in unusual yarns including feathered yarns and lurex mix. They have now extended their stock to carry satin motifs. For further information about their range write to Europa Yams Ltd., Jowler Mill, Jowler, Luddenden, Halifax, W. Yorks HX2 6TB.

Don't forget that Twilleys supply coned yams as well as balled yarns. There are eight yarns at present in their coned range, including two mercerised cottons and a cotton mix yarn. A new balled yarn is Wisper, a fine 80% kid mohair, 20% nylon yarn available in fifteen colours on a 20g ball. Further details about Twilley yarns and their stockists can be obtained from the Mill & Distribution Centre, Roman Mill, Stamford, Lincs PE9 1BG.

There are four new shades in Sunbeam's Aran Knit collection, a turquoise — Lagoon, cerise pink Lipstick, bright yellow — Pineapple and a purple Imperial. This is a machine washable Aran on a 50g ball. For summer, Sunbeam have introduced a slub yarn called Floret, available in multi and single colour and also on a 50g ball.

# ALWAYS HAPPY TO SEE YOU

# MAY THEME DAYS

Sat 7 Beginners' Day - Ann Kite Video

Sat 14 Lace Demonstrations - Using main carriage or lace carriage on Knitmasters. Jones and

Knitting for Summer - Introducing new yarns Sat 21

Charting Device - Understand your Knitradar, Sat 28 Leader or Tracer

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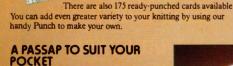
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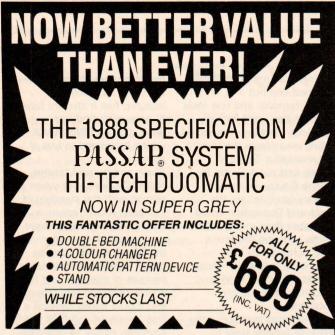
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# REPORTING

**DIARY DATES** Some more dates for your diary for May:

30th April/1st May 7th/8th May 7th/8th May 9th/13th May 12th/14th May 28th May

Metropolitan Exhibition, Bournemouth Knitaholics Exhibition, Stockton, Cleveland Dropinstitches Seminars, Stevenage, Herts Co-op Holidaycare Week, Pontins, Southport Machine & Mills Pennine Breaks, Hebden Bridge Swiftknitter's Designer Show, Portsmouth

The Metropolitan Exhibition features Susanna Lewis again this year due to popular demand, so don't forget to make a note in your diary — the exhibition is as usual at the Summerbee School, Bournemouth, Further details can be obtained from Metropolitan Sewing Machines, 139/141 Windham Road, Bournemouth BH1

For those of you who are interested in the Dropinstitches seminars, I have been informed that they will consist of two, one day seminars. About twenty experts will be there, each holding a workshop of approximately one hour's duration on both days. Each day, visitors can select four workshops to attend. Further information can be obtained from Janet and Helen, Dropinstitches, 3 Bedwell Park, Bedwell Crescent, Stevenage,

The Machine & Mills Pennine Break is a short break hosted by Myra Coles and devoted to practical talks and demonstrations, plus a trip out-and-about the Pennine countryside with a guided educational visit to a working mill and a chance to seek out some bargains! Further details can be obtained from Machine Craft, 59 Bridges Lane, Hebden Bridge, West Yorkshire.

Finally, Peter Walsh of Swiftknitters is putting on a Designer's Show on the 28th May. At the show, Peter will be launching three new books by Jo Beedles, Ann Durkan and Mary Dowse. The fashion show will incorporate garments from these books. Also, during the day several workshops will take place, including one by John Hicks, a very popular lecturer from the Portsmouth college who really does make you sit up and take notice of his craft remember the Wellington boots and wheelbarrow from a couple of years ago? Others attending include Iris Bishop and Ann Brown (Posh Frocks). Tickets for this one day event are limited and can be obtained by sending an SAE to Swiftknitters, 131/133 Fratton Road, Portsmouth PO1 5ES.

# GOSSIP@GOSSIP@GOSSIP

- Readers of Machine Knitting News are being asked to take
- part in creating a world record and at the same time raise thousands of pounds for charities through the 1988 ITV Telethon, being broadcast at the end of May.
- The Abbeyfield Society is a national charity devoted to renovating/building family-sized houses for seven to eight
- elderly people. These are not 'old folks homes', but homes which can offer a supportive family atmosphere with privacy, companionship and security.
- Residents of Abbeyfield's houses all over the UK will be
- knitting pieces each 12" x 12" to form part of the world's longest scarf and they need our help. Each knitter will need
- to be sponsored and we would like you to join in, if you want to be a knitter or sponsor, please contact The Abbeyfield/Telethon Scarf, The Abbeyfield Society,
- 186/192 Darkes Lane, Potters Bar, Herts EN6 1AB. The Telethon is a 27 hour long programme during which
- viewers will be encouraged to part with their money for charity. The money raised by knitting the scarf will go
- towards the total collected during the Telethon and be distributed by Trusts to a wide range of charitable causes
- -£10 million is the figure being looked for! So remember, if you can help, contact the above address and help make a

# City and Guilds of London Institute

We have carried a lot of correspondence recently about the proposed City and Guilds course for Machine Knitters. Some readers have been for it — others against — here at MKN we have tried to present an all-round unbiased view. Recently I received, from Mr Raymond Langford Jones, a copy of the draft syllabus for the 'pilot' scheme which initially will be offered as Part 1 for certificate. I then spoke to Mr Langford Jones and he told me the response to the original suggestion for a course had been most positive, hence the proposed syllabus.

The course consists of two parts: A) Common Core (this is common to all the Creative Studies courses and aims to provide students with a basic vocabulary of the designers/craftsman). B) Machine Knitting — theory (this seems rather biased toward design and pattern development. There is a section covering equipment and basic techniques. BUT this does not seem to include all machines irrespectively and nowhere does there seem to be a section dealing purely with knowledge and techniques on all the different machines giving a full aspect of the craft!)

An initial course of six months duration is envisaged with examination available May/June 1990.

Anyone who wishes to read and study the syllabus should

write, sending a SAE to:
Division 23, City and Guilds of London Institute,
46 Britannia Street, London WC1X 9RG.

Dear Editor,
I have read the correspondence regarding the City & Guilds Machine Knitting
Certificate with great interest.
I obtained the NWRAC certificate in 1977 and the City & Guilds certificate in

Creative Textiles (Part 1) in 1986.
I decided to do the latter because I felt that, although

my technique was good, my design knowledge was poor. The two courses complemented each other and I hope that a City & Guilds course in Machine Knitting will incorporate the best of both.

Mrs B Aspey Halstead, Essex

And so say all of us Mrs Aspey. Ed

Dear Editor, I feel I must protest at Mrs Kinder's remarks about the City & Guilds course in Creative Textiles. I am one of a class of 16 taking this course at the Bishop Burton College of Agriculture. None of us would be greatly worried if the Machine Knitting content of the course were dropped, and certainly the course would not then collapse! Machine Knitting is only one of several techniques covered in this course, not the mainstay. Almost all of our class are hand-spinners, and handknitters and/or weavers, and

though many of us, myself included, do own knitting machines, they take back seats to our spinning-wheels and knitting needles. I think I am the only one who is actually using my Brother for one of the final projects. I don't know what students in other parts of the country feel about the City & Guilds course, but it is in no danger of collapsing here, with or without Machine Knitting. Incidentally, I believe Mrs Kinder is coming to talk to our Guild, the York and District Guild of Weavers, Spinners and Dyers, later this year, and we are all looking forward very much to meeting her.

Miss N A Lloyd Hull

Thank you for your clear comments Miss Lloyd. It is interesting to hear from an actual student undertaking a C & G Course. Ed

Dear Editor,
May I be so bold as to add
to your correspondence
concerning the NWRAC City
& Guilds discussion. There is
no doubt that the home
knitter is becoming very
skilled and so many wish to
add to their skills in knitting
and design and, at the
College of Technology in
Belfast we are now bringing
a group of students to their
Part II level. We have always
found NWRAC to be well

administered and their course is a good one but it is, of course, regional and one feels that over the years higher standards have been expected getting away from the fact that it is still a Grade V Course and not a Grade III College Course in Fashion and Design. Even so, the Credit and Distinction levels are higher than in any other course showing the levels being achieved by the students; a fact which must illustrate the hard work and dedication of the tutors concerned

Much is being said about the necessity for any tutor to have the NWRAC Certificate, but is this really necessary? If it were so then it would not be possible for centres of higher education to begin new courses, the current BTEC Scheme would be nonexistent nor would it be possible to update existing courses. I have been running this course and do not have the Certificate (I think to the annoyance of some) but I do have many years experience in the teaching of home machine knitting and can call upon colleagues with honours degrees in Fashion and Design.

When one considers a new course, it must be researched and I must say that Mrs Young of NWRAC was most helpful. She gave me the names of tutors in other colleges, to whom I wrote and they were only too willing to help. I invited Sandra Bingham over and met her at the airport and helped her carry a large suitcase of samples. I sent samples of my students' work to Sandra and to other tutors in order to ask their comments and so on. In the course of marketing my computer programs I have received many letters from knitters some of whom have told me that they were on the NWRAC Course and they event sent me photographs of their work - in the end we did quite well. To reiterate, there are so many ways that the tutor goes along for his or her students. NWRAC are helpful and their assessor, Sandra Bingham, although we did not always see eye to eye, was most helpful. What I must say though, is that in all my years as a college lecturer, has a student failed to pass with credit or distinction by ONE MARK — which happened to two of mine.

Much can be said for the NWRAC Course but when a person with the standing of Kathleen Kinder enters a discussion, her words have some merit. I must agree that the City & Guilds have so much experience in running courses of this type and have an international reputation. and would surely develop a less 'pressure' syllabus which Kathleen rightly says is rather authoritarian — although it is rather difficult to be other in a creative subject. What is most important is that the home machine knitter in so many areas is looking for a course where they can develop their skills. Why not have both? If this letter is long, I apologise, yet hope that you can include it in your excellent and widely read magazine.

Terry Mason Antrim, N. Ireland

Dear Editor I am writing with reference to the increasingly acrimonious correspondence in your letters column concerning a proposed City and Guilds course in machine knitting. I have no wish to add to the acrimony but I must take issue with the inaccurate and offensive remarks in Kathleen Kinder's most recent letter concerning the personnel associated with the NWRAC/ULCI scheme, particularly the reference to an alleged lack of qualification of our examiner which is definitely incorrect. Our 'team' is at least as well qualified and experienced as the City and Guilds team and in addition the members have many years of first-hand experience of teaching students on this externally examined scheme and of participating in the assessment process. We find it most upsetting that prominence is given in your letters column to Mrs Kinder's rather biased personal views of our course when she has no direct experience of it either as a

teacher, student or member of any of our committees. The NWRAC/ULCI is always ready to review its scheme in response to comments or suggestions from users and indeed made revisions as recently as 1986. It is a pity Mrs Kinder and her colleagues did not make a direct approach to NWRAC/ULCI about the alleged inadequacies of our scheme instead of taking it to City and Guilds to form the basis of a totally separate scheme

People may argue about what is meant by a 'national' scheme or a 'regionally based' scheme, but the fact remains, that the NWRAC/ULCI Scheme may be taken anywhere in the country. However, the existence of a published scheme, whether of NWRAC/ULCI or of City and Guilds, cannot guarantee the existence of classes in a particular locality or of teachers to teach them. Knitters looking for courses

should follow the advice given by Mrs Coustan in her letter to you (March issue) and ask their local education authority or nearest college or adult education centre to start classes in the area. Finally, whether or not you

publish this letter, I would ask you to publish our correct address which was given incorrectly in Mrs Taylor's letter. Correspondents requiring copies of our scheme booklet are asked to enclose a cheque or postal order for £1.30.

Mrs B.H. Young
Assistant Secretary
NWRAC/ULCI
Town Hall
Walkden Road
Worsley
Manchester M28 4QE

We wish to thank all those who have written to us on this subject and for showing their interest, but
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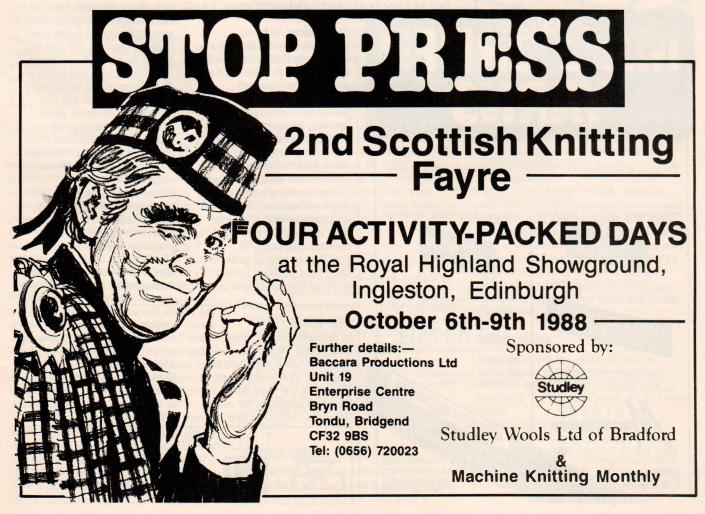
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# HINTS AND TIPS

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Dear Editor

Having no cover for my new ribber, I covered it with the ever useful dustbin liner.
Secure it tightly over ribber with clothes pegs at each end.

This stops all the agro of knitting getting caught up on the ribber when using the main bed only.

It will do until I get around to obtaining a proper cover. Hope this idea will help other knitters.

Joan Williamson Shanklin

Isle of Wight

Sounds better than my bit of curtain, Joan, I must try it. Ed.

Dear Editor,

I was prompted to write to you after reading Mr Hallam's letter on the 'Hints and Tips' page. I have a Brother 830 and when I shape the neckline, I take a note of the row counter and card number and after having finished the first side, I return all the needles to working position. I then lock the card on the number noted, put my lace carriage in position, take it across the needles and remove it. This selects the needles for pattern knitting

automatically. The card is then released and you are ready to knit.

Mrs C Salcombe Headington Oxford

Dear Editor,

I found that hanging the ribbing comb evenly, which is very important, was made very easy by marking the two teeth in the centre, either with nail varnish or paint in a bright colour, so that when it was pushed up between the ribber, they were then put on either side of the centre 'O'.

Mrs P Walker Huddersfield

Thanks Mrs Walker - it works.

Dear Editor,

After many times casting off tuck stitch patterns by hand, I've come up with a solution. All tuck patterns which spread, leave tight seams when cast off.

I latch off in the usual way but do it as follows. Every other stitch, knit manually, and then latch off. So simple and it also gives a nice edge to sew up.

G M Simmonds Torquay

Most good ideas are simple ones - thanks for yours. Ed

Dear Editor

I've very recently bought a Knitmaster 323. I'm enjoying using it and look forward to all the hints, tips and patterns in MKN. In December issue, pattern 15, for baby dungarees is lovely, but here's a tip to save some tedious re-hanging. Work first half from needles 0-75, when completed leave in non-working position. Work second half from 0-75 on opposite side of needle bed, then return non-working needles into use and continue to end of pattern. Until I get a ribber I prefer to hand-knit welts and cuffs.

Knit the last row plain and it is then easier to place the stitches on the machine needles. Thanks for a most interesting magazine.

Marie Langford Ryde

Isle of Wight
Good idea Marie, thanks,
although if working in a light
colour you would have to
watch the brushes didn't leave
a tell-tale line across the work
in holding. Ed.

Dear Editor

A problem recently arose in the knitting class I attend regarding the difficulty of removing the nylon cord from between the waste yarn and the main yarn when knitting in rib.

My tip to overcome this should be of particular interest to those who like to do the cutand-sew neckband in rib, as was the case at my class. I believe it is an original idea, and has been very popular. The method is as follows:

Set the machine for rib with the required needle arrangement, and then with waste yarn, knit the zig-zag row. Hang the cast-on comb and weights, then knit a few rows of waste knitting. Thread the nylon cord and knit along the back bed, then along the front bed, or viceversa. (A second nylon cord may be used for the second row if required. If you are using one cord, pull down a small loop of the cord under the carriage after the first row and hold down while knitting the second row this will be useful later.) Thread the main yarn, cast on with an open or closed edge and knit the rib. When you are ready to remove the nylon cord, get hold of it by the loop and pull from that side if you have used one cord, or either end of you have used two cords. Mrs Sue Good Basingstoke



Dear Editor,

In response to the letter from Mrs Penny Deady (Hints and Tips, February) I thought you might be interested to see a sample of the care labels my husband produces for me, using his computer and

printer.

Many people have computers at home these days.

Mrs S Mouncher Staunton Glos

A very neat idea. Thanks Mrs Mouncher. Ed





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# PLEASE CAN YOU?

Searching for a particular punchcard, a club in your locality, or operating instructions for an out-of-date machine? Let this page help you track them down.

Each month the list of requests for information and help becomes lengthier. Instead of noting each individual request, as the response is the same in all cases, 'If you can help - just send to or contact us here at MKN and we will certainly forward to...' in future this will be given once only, to make more space for other requests for help.

Dear Editor

one to me.

I would like to say how much I enjoy your magazine. I think it's a great idea to have a page where we readers can help each other out.
I am hoping that someone can help me this time.
I have a Jones 910 Electronic and have heard of an electronic pattern called the SPHINX. I would be willing to pay if anyone has a copy of this and is willing to send

Thanking you for a very informative magazine.

Mrs Margaret Anderson Glenrothes

Dear Editor
Please can you or any MKN
reader help me? I am looking
for a punchcard pattern of
Laurel and Hardy. I do not

have an Intarsia carriage, so I would have to punch two 24 stitch cards.

My nephew is in the Laurel and Hardy fan club and I wish to make a sweater for him. I have only been a machine knitter for nine months and I look forward to my MKN every month. I find the hints in your letter pages very useful.

# Mrs Brenda Ormesher Skelmersdale Lancs.

Dear Editor,
I wonder if anyone can help
me? I am looking for
instructions for a very old
machine. It's a 1962 Girotex
Multimatic. I'm willing to pay
for any help.

# Mrs Burton Langho Lancs.

Dear Editor
I am writing to ask for your
help. My friend and I are
doing a sponsored knit-in, for
'Red Wings Horse Sanctuary'
in Norwich which is known
worldwide, and we have
run out of wool, and
desperately need as many
cones and colours as
possible. We are willing to
collect within a 30 mile

radius. We have asked many

warehouses if they would be willing to help, but have had no luck. So if you can help it would be most appreciated. Please 'phone me between 11am — 2pm any day on Rayleigh 779212.

# Mrs S VanWin Rayleigh Essex

Dear Editor
I am writing to ask your help
on two matters. Firstly, may I
through your magazine ask
anyone living in the
Cheylesmore or Styvechale
area of the city to get in
touch with me as I'd love to
meet some other knitters
locally.

The second request is for punchcards for a frog and Koala bear suitable for a 24 stitch punchcard machine.

# Mrs Rosaline Elliot Coventry

Dear Editor
Can anyone help me? I have been searching everywhere for patterns for a standard gauge machine knitted balaclava. I would be delighted if someone could lend me a pattern to photocopy. Many thanks for a great magazine.

Mrs L Raikes Port Talbot

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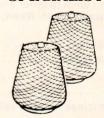
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# **LETTERS**

Are you an experienced machine knitter or an absolute beginner? Do you have a funny story to tell us or a tale of woe? If your anecdote raises a smile or helps out another machine knitter, we'll pay you £5!

Dear Editor,
A few lines about my
experience with a Passap:
A proud owner of a Passap
I be

I imagine lovely jumpers, one, two, three. But alas and alack it wasn't

to be, Those lovely jumpers one,

two, three.

Don't give up I told myself,

Don't resign that lovely machine to the shelf.

Shake yourself and get some

Shake yourself and get some help.

You know your nails will grow again, your house will regain its usual serene composure again.

To work I went, dusted off my back issues of MKN (had a lovely read) put every scrap of information on a home computer, then started to knit. Hip hip hoorah, I now had lovely jumpers one, two, three.

# Mrs Frances Watson Guisborough

I admire your sublime nonchalance about the house and nails – Frances, I fall down on both counts I'm afraid. Ed

Dear Editor,

For many years I had always wanted a knitting machine, and for Christmas 1986 there

it was, a Brother 860 complete with ribber, bought for me by my husband. All through Christmas and for the next few months I practised every day, making lots of mistakes and sometimes wished he had never bought the machine for me. Suddenly, I produced my first jumper, then another and another.

During March of 1987, I

bought my first MKN, and in April visited the Bristol Exhibition. Summer had arrived and I was eagerly awaiting the National, and it was there I purchased ten cones of Bonnie's Wools and produced thirteen jumpers, to my own design, for a friend who runs a local group of majorettes, known as the Cheltenham Super Troopers. During the switching on of the Christmas lights 1987, all the girls marched through the town centre, and amongst the crowds, people were saying I wonder who made those lovely jumpers'. I felt very proud of my efforts. So to all new knitters, don't give up, with understanding and all the hints and tips in MKN, you will get there in

## Mrs Susan Gasson Cheltenham

the end.

Thank you for the photograph, Mrs Gasson. Unfortunately we can't reproduce in colour on the letters page, but the sweaters certainly looked good. Ed

Dear Editor,

Further to your latest news about Lister yarns stopping trading, there is a rumour that they are thinking of going over to coned yarns, however that will have to be seen.

At present the hand-knitting yarn market is in a slump with major companies feeling the crunch. However, coned yarn companies seem to feel their market is expanding, but the only problem now is that if everyone starts producing coned yarn our market will become swamped and the same situation will occur as in the hand-knitting market. At present machine knitters know and trust their yarn companies, but if more and more companies try to 'jump on the bandwagon' and start producing inferior products to make a quick profit we will be back where we started some ten years ago.

We really have a unique industry, there is no other I

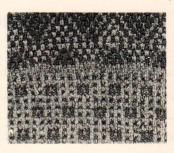
can bring to mind where we, the ordinary members of the public, can walk up to owners of major companies or even general managers at a show, and have a chat. We must not forget that we the knitters, decide the fate of a company by purchasing their products or not as the case may be; and in doing so, we are influential in maintaining their products' quality. So, when purchasing yarns, machines or accessories remember, if we want to keep our industry/hobby/ craft thriving we must make sure that the products we purchase are of the quality we have come to expect.

Mrs Burnes Evesham, Worcester

Dear Editor, I thought you would be interested in the enclosed swatch. The students' designs in the January issue interested me greatly. It is lovely to see unusually creative ways of using a knitting machine. The enclosed fabric is as you can see very similar to moquette, but with a lovely soft fluidity to it. The pattern and technique are taken from Kathleen Kinder's Mosaic Floatless Fair Isle Book, I have designed and knitted two sweaters with this technique - one man's, one lady's. They have turned out absolutely stunning. The pure wool and chenille lady's sweater is so soft and warm and has created great interest whenever it is shown. I have used both tuck and slip on different parts of the sweater and seed stitch bands on the chenille

As the patterns in this technique tend to be rather 'busy' and have put some people off, I was very careful to choose closely related colours on both sweaters. The texture is really the main feature I feel, with colour as a secondary feature when using this technique.

Margaret Cook Braunstone, Leicester



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# A·B·B·R·E·V·I·A·T·I·O·N·S

alt = alternate(ly) beg = beginning
CAL = carriage at left
CAR = carriage at right ch = chain cm = centimetres cont = continu(e)(ing) dc = double crochet dec = decreas(e)(ing) fig = figure foll = following g = grams HP = holding position

inc = increas(e)(ing) = knit MB = main bed
MC = main colour
mm = millimetres
MT = main tension

MT-1, (2), (3) = one, (two), (three) full sizes tighter than main tension MT-4, (5), (6) = four, (five), (six) full sizes tighter than main tension main tension
MT+1, (2), (3) = one (two),
(three) full sizes looser
than main tension
MT+4 (5) = four (five) full
sizes looser than main

tension MT+9 = nine full sizes looser than main tension MY = main yarn N(s) = needle(s) NWP = non working position

0 = no stitches or rows V = no stitches or worked P = purl patt = pattern RB = ribber RC = row counter rem = remain(ing) rep = repeat SS = stitch size st(s) = stitch(es) st st = stocking stitch tog = together UWP = upper working

position
WP = working position
WY = waste yarn
A, B, C and D = contrast colours

## FOR MACHINES WITHOUT RIBBER

MOCK RIP

Push the number of main bed Ns as given in the patt to WP. Return alt Ns to NWP for 1x1 mock rib. Return every 3rd N to NWP for 2x1 mock rib. Using WY, cast on and K a few rows, ending carriage at left. Using T10 and nylon cord, K1 row. Set RC at 000. Using MC and MT-3, K the number of rows given in patt, (i.e. depth of rib). Using MT, K1 row, (fold row), Using MT-3, K the same number of rows for depth of rib again.

Return intermediate NWP Ns to WP. Pick up loops from first row worked in MC and hang on to empty Ns (plus adjacent N for 2x1 rib), evenly along row. Complete as given in patt. To remove WY when work is completed, pull nylon cord from one end of work, thus releasing waste knitting.

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# **SHORT-SLEEVED TOP**

# **ILLUSTRATED ON PAGE 21**



**MACHINES:** These instructions are written for chunky gauge machines with ribber

YARN: Aravll Zigay Chunky FIBRE CONTENT: 80% Acrylic, 20% Nylon

COLOUR: We used White (MY) STOCKISTS: If you have any difficulty in obtaining this yarn. please write to Argyll Wools Ltd, PO Box 15, Priestley Mills,

Pudsey, W. Yorks LS28 9LT

# SIZES

To suit bust 76[81:86:91:96: 102:107]cm.

Finished measurement 85 [91:96:101:106:112: 117]cm.

Length 48[50:52:54:56:58: 601cm.

Sleeve seam 11.5[11.5:11.5: 11.5:11.5:10.5]cm. Figures in square brackets [ ] refer to larger sizes; where

Argyll Ziggy Chunky 1 x 500g cone in MY.

## **GARMENT WEIGHS** 240g for size 86cm.

## MAIN TENSION

15 sts and 19 rows to 10cm measured over st st (tension dial approx 8).

Tension must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

## NOTE

Purl side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **EMBOSSED LEAF MOTIF**

Work first leaf over the nearest set of RB sts to centre '0'

■ On MB transfer the st from the first N at left of RB sts on to adjacent N (on MB). Return the empty MB N to NWP and push corresponding RB N to WP to replace it (see Diagram 2). K2 rows. Rep this transfer, 3 more 30[34:38:42:46:50:54]. On RB transfer the 2nd st in from right on to the edge N. Transfer the two sts to adjacent empty N at left. Return the empty right edge RB N to NWP and push corresponding MB N to WP to replace it (see Diagram 4). K2

Rep this transfer, 5 more times.

Transfer rem RB st to MB. Return empty N to NWP ■. RC shows 42[46:50:54:58:62:66]. Left leaf is complete.

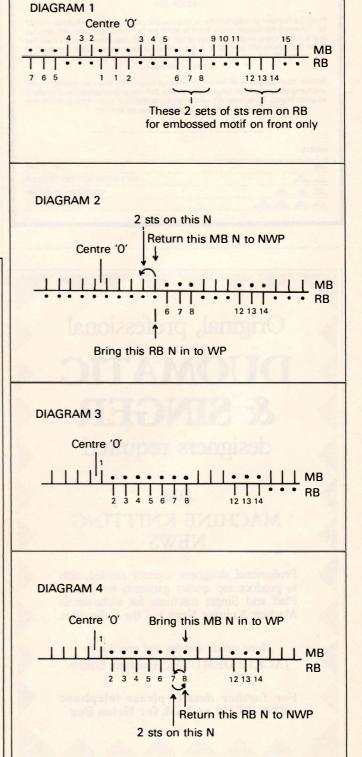
Rep from ■ to ■ over rem set of RB sts. Reverse the transfers by reading left for right, and right for left.

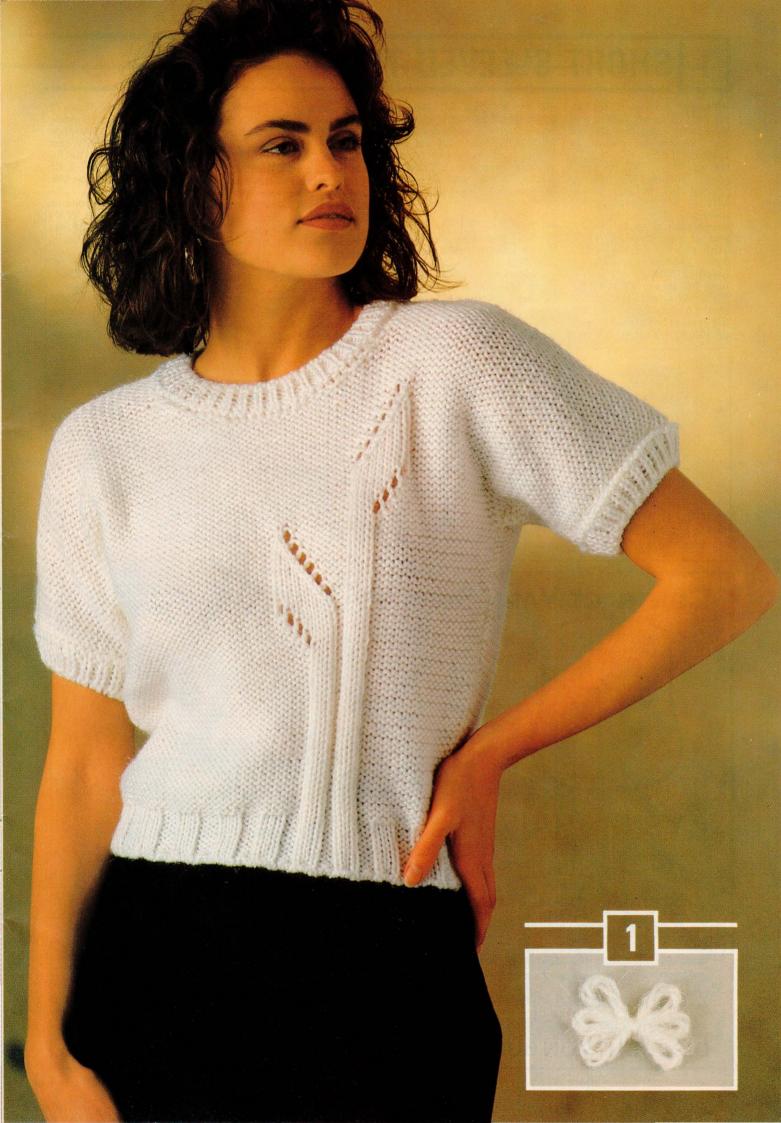
RC shows 62[66:70:74:78:82: 86]. Second leaf is complete. All sts are on MB.

## BACK

\* With RB in position, set machine for 1x1 rib. Push 56[60:64:68:72:76:80] Ns on MB and corresponding Ns on







# 1

# **SHORT-SLEEVED TOP**

RB to WP. Arrange Ns for 1x1 rib. CAL. Using MY, cast on and K2 tubular rows. Transfer sts for 3x3 rib as shown in Diagram 1. Set RC at 000. Using MT-2/MT-2, K10 rows\*. Transfer sts to MB.

\*\* Set RC at 000. Using MT, K 8[8:8:10:10:12:12] rows.

Shape sides by inc 1 st at each end of next and every foll 10th [10th:10th:10th:10th:12th] row, 4 times in all. 64[68:72:76:80:84:88] sts. K until RC shows 42[44:46:48: 50:52:54]. Cast on 3 sts at beg of next 6 rows. Cast on 3[3:3:3: 3:3:2] sts at beg of next 2 rows. 88 [92:96:100:104:108:110]

sts \*\*. K until RC shows 82[86:90:94:98:102:106].

Using WY, K a few rows over 31[33:35:37:39:41:42] sts at right and release from machine. Rep over 31[33:35: 37:39:41:42] sts at left. Remove rem centre 26 sts on to WY.

## **FRONT**

Work as given for back from \* to \*. Transfer sts to MB, leaving sts 6, 7, 8 and 12, 13, 14 on RB as indicated in Diagram 1. Using MT/MT, work as given for back from \*\* to \*\* but at the same time when RC shows 22 [26:30:34:38:42:46] commence leaf motif. Keeping

shaping and motif correct, work until RC shows 62[66:70: 74:78:82:86]. All sts are on MB. CAR.

## SHAPE NECK

Using nylon cord K 48[50:52: 54:56:58:59] sts at left by hand taking Ns down into NWP. Cont on rem 40[42:44:46:48: 50:51] sts at right for first side. K1 row. Push 1 N at neck edge to HP, K1 row. Push 3 Ns at neck edge to HP, K1 row. Push 1 N at neck edge to HP, K1 row, 5 times. Using nylon cord K the 9 Ns back from HP to NWP. K until RC shows 82[86:90:94: 98:102:106]. 31[33:35:37:39: 41:42] sts.

With wrong side facing hang corresponding back shoulder sts on to Ns. Using MT+1, K1 row. Cast off.

Unravel nylon cord over 40[42:44:46:48:50:51] sts at left. Reset RC at 62[66:70:74:78:82:86]. Complete to correspond with first side reversing shapings but do not join shoulder seam. Using WY, K a few rows and release from machine.

Remove rem centre 26 sts on to WY.

# NECKBAND

With RB in position set

machine for 1x1 rib. Push 72 Ns on MB and corresponding Ns on RB to WP. \*\*\* Arrange Ns for 1x1 rib. Using MY, cast on and K2 tubular rows. Set RC at 000. Using MT-2/MT-2, K5 rows. Transfer sts to MB. Using MT, K1 row\*\*\*.

With wrong side facing pick up 26 sts from back neck, 10 sts down side of neck, 26 sts across front neck and 10 sts up side of neck. Cast off.

# JOIN RIGHT SHOULDER SEAM

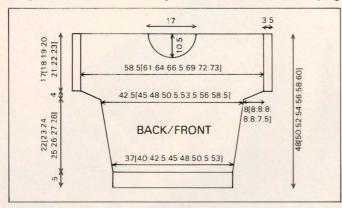
Push 31[33:35:37:39:41:42] Ns to WP. With right sides tog hang rem right shoulder sts on to Ns. Using MT+1, K1 row. Cast off.

## SLEEVE BANDS

With RB in position, set machine for 1x1 rib. Push 51[54:57:60:63:66:69] Ns on MB and corresponding Ns on RB to WP. Work as given for neckband from \*\*\* to \*\*\*. With wrong side facing hang edge of sleeve evenly on to Ns. Cast off.

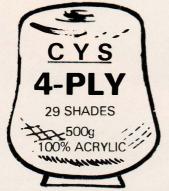
# TO MAKE UP

Block pieces out to correct measurements. Spray with cold water and allow to dry. Join side and sleeve seams.



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# MINI SUIT

# **ILLUSTRATED ON PAGE 24**



**MACHINES:** These instructions are written for chunky machines YARN: Scheepieswol Mayflower Cotton Helarsgarn

FIBRE CONTENT: 100%

Cotton

COLOUR: We used Black Shade 915 (MC) and Turquoise Shade 911 (C)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Scheepieswol (UK) Ltd, 7 Colemeadow Road, Redditch, Worcs B98 9NZ.

# SIZES

To suit bust 71[76:81:86: 91]cm.

TOP

Finished measurement 92[97: 102:107:112]cm.

Length 58cm. Sleeve seam 20cm.

SKIRT

Finished hip measurement 75[81:86:92:97]cm. Length 40cm.

Figures in square brackets [ ] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

**MATERIALS** 

Scheepjeswol Mayflower Cotton Helarsgarn. 10[10:12:12:14] x 50g balls in 4[4:6:6:6] x 50g balls in C. 4 buttons. Waist length of elastic.

**GARMENT WEIGHS** 

Top: 562g for size 86cm. Skirt: 273g for size 86cm.

# MAIN TENSION

After washing and pressing, 16.5 sts and 22 rows to 10cm measured over st st (tension dial approx 6.).

Tension must be matched exactly before starting garment.

## **ABBREVIATIONS**

See page 19.

NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

TOP BACK

Push 76[80:84:88:92] Ns to WP. Using MC, cast on by hand. CAR. Using MT-1, K5 rows. Using MT+1, K1 row. Set

RC at 000. Using MT, K66 rows. Place a marker at each end of last row. K until RC shows 128. Place a marker on the centre st.

Using a length of MC, cast off the centre 40 sts. Using WY, K a few rows over 18[20:22:24: 26] sts at right and release from machine. Rep over rem 18[20:22:24:26] sts at left.

FRONT

Work as given for back until RC shows 66. Place a marker at each end, CAR.

DIVIDE FOR CENTRE FRONT OPENING

Using a length of MC, cast off the centre 2 sts. Using nylon cord, K 37[39:41:43:45] sts at left by hand taking Ns down into NWP. Cont on rem sts at right for first side. K41 rows. CAL. Cast off 6 sts at beg of next row. Dec 1 st at neck edge on the foll 7 rows. 24[26:28: 30:32] sts. K1 row. Dec 1 st at neck edge on next and every foll alt row, 6 times. 18[20:22:24:26] sts. K1 row. RC shows 128. Using WY, K a few rows and release from machine.

Unravel nylon cord over sts at left bringing Ns back into WP. Reset RC at 66. Complete to correspond with first side, reversing shapings.

**SLEEVES** 

Push 76 Ns to WP. Using MC, cast on by hand. CAR. Using MT-1, K5 rows Using MT+1, K1 row. Set RC at 000. Using MT, K4 rows. Shape sides by inc 1 st at each end of next and every foll 5th row, 8 times in all. At the same time when RC shows 22, change to yarn C and work until RC shows 44. 92 sts. Place a marker on the centre st. Cast off.

**NECKBAND** 

Push 86 Ns to WP. Using MC, cast on by hand. Using MT-1, K4 rows. Using MT+1, K1 row. Using MT-1, K4 rows. Place a marker on the centre st. Using WY, K a few rows and release from machine.

JOIN SHOULDER SEAMS

Push 18[20:22:24:26] Ns to WP. With right side facing, hang back right shoulder on to Ns behind latches. With wrong side facing, hang corresponding front shoulder sts on to Ns in front of latches. Manually pull one set of sts through the other. Cast off. Rep for rem shoulder sts.

TO MAKE UP

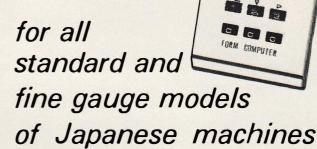
With wrong side facing, pin pieces out to correct measurements and press. Pin neckband to neck edge matching centre

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# 2 MINI SUIT

back markers. Back st through open loops unravelling WY as you go. Fold in half to inside and catch down.

**BUTTONHOLE BAND** 

Push 33 Ns to WP. With right side facing, hang right edge of front opening on to Ns. Using MC and MT-1, K2 rows. Work 4 evenly spaced buttonholes, K2 rows. Using MT+1, K1 row. Using MT-1, K2 rows. Work 4 buttonholes over the same Ns as before. K2 rows. Using WY, K a few rows and release from machine.

## **BUTTON BAND**

Omitting buttonholes, work as given for buttonhole band over left edge of front opening.

Sew in sleeves between markers and matching centre mark to shoulder seam. Fold bands in half to right side and back st in position through open loops of last row. Finish ends of bands. Join side and sleeve seams. Fold hem at lower edge of front, back and

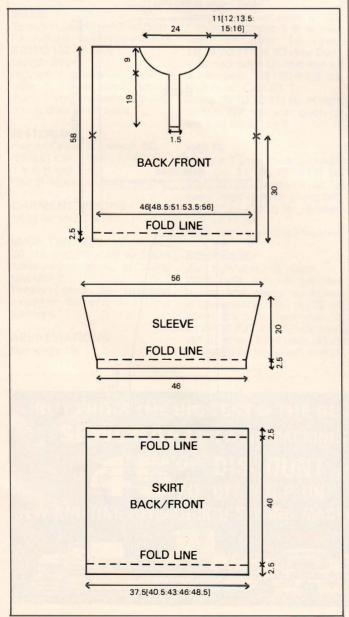
sleeves to inside. Slip st in place. Sew on buttons. Give a final press.

**BACK AND FRONT ALIKE** 

Push 62[66:70:76:80] Ns to WP. Using MC, cast on by hand. Using MT-1, K5 rows. Using MT+1, K1 row. Set RC at OOO. Using MT, K22 rows. Using C, K22 rows. Using C, K22 rows. Using MT, K22 rows. RC shows 88. Using MT+1, K1 row. Using MT-1, K5 rows. Cast off.

## TO MAKE UP

With wrong side facing, pin pieces out to correct measurements and press. Join side seams. Fold hem to inside and slip st in position. Fold waistband to inside, catch down leaving an opening for elastic. Thread elastic through waistband and secure ends. Close opening. Give a final press



# MAN'S CARDIGAN

# **ILLUSTRATED ON PAGE 27**



MACHINES: These instructions are written for standard gauge punchcard machines with ribber. We used a Jones+ Brother 830 with ribber YARN: Many-a-Mickle Lambswool

FIBRE CONTENT: 100% Pure New Wool

COLOUR: We used Paynes Grey (MC), Neutral Tint (A) and Winsor Red (B) STOCKISTS: To obtain this

yarn, please write to Many-a-Mickle, Hacking Street, Darwen, Lancs BB3 1AL

To suit chest 96[102:107: 112]cm. Finished measurement 106[110:116:120]cm. Length 62.5[64.5:67:68.5]cm. Sleeve seam 46.5[47:47.5: Figures in square brackets [ ]

refer to larger sizes; where there is only one set of figures, this applies to all sizes.

# **MATERIALS**

Many-a-Mickle Lambswool. 1 x 400g cone in MC. 1 x 400g cone in A. Oddment in B. 3 buttons.

# **GARMENT WEIGHS**

373g for size 96cm.

**MAIN TENSION** 30 sts and 52 rows to 10cm measured over slip st patt (tension dial approx 6). Tension must be matched exactly before starting

**ABBREVIATIONS** See page 19.

# NOTE

garment.

Purl side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **PUNCHCARD PATTERN**

We used a Jones+Brother basic If necessary punch card before starting to knit.

With RB in position, set machine for 1x1 rib. Push 160[166:174:180] Ns on MB and corresponding Ns on RB to

WP. \* Arrange Ns for 1x1 rib. CAL. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-2/MT-2, K16 rows. Using B, K2 rows. Using A, K until RC shows 34. Transfer sts

Insert punchcard and lock on first row. Set machine for patt. Using MC and MT, K1 row. Set RC at 000. Release punchcard. Set carriage for slip st knitting and work in patt \*. K until RC shows 270[280:294:304]. CAR

## SHAPE SHOULDERS

Cast off 8 sts at beg of next 12[12:6:2] rows. Cast off O[0:9:9] sts at beg of next O[0:6:10] rows. Cast off rem 64[70:72:74] sts.

## LEFT FRONT

With RB in position, set machine for 1x1 rib. Push 74[76:80:84] Ns on MB and corresponding Ns on RB to WP. Work as given for back from \* to . K until RC shows 50.

Dec 1 st at left edge on next and every foll 10th row, 4[1:4:6] times in all. Dec 1 st at left edge on every foll 15th row, 12[15:14:13] times in all. 58[60:62:65] sts. K until RC shows 270[280:294:304].

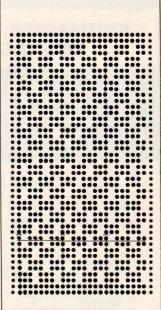
# SHAPE SHOULDER

Cast off 8 sts at beg of next and foll 5[5:2:0] alt rows. K1 row. 3RD[4TH] SIZES ONLY

Cast off 9 sts at beg of next and foll 2[4] alt rows. K1 row. ALL SIZES Cast off rem 10[12:11:12] sts.

# RIGHT FRONT

Work as given for left front, reversing shapings.



Punchcard reproduced courtesy of Jones+Brother

# MAN'S CARDIGAN

With RB in position, set machine for 1x1 rib. Push 80[80:82:82] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAL. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-2/MT-2, K16 rows. Using B, K2 rows. Using A, K until RC shows 34. Transfer sts to MB. Lock punchcard on first row. Set machine for patt. Using MT, K1 row. Release punchcard.

Set RC at 000. Set carriage for slip st knitting and work in patt. Shape sides by inc 1 st at each end of every foll 4th row, 49[49:51:51] times. 178[178: 184:184] sts. K until RC shows 200[202:206:208]. Place a marker on the centre st. Cast

POCKET

Push 42 Ns to WP. Using A, cast on by hand. CAL. Lock punchcard on first row. Set

machine for patt. Using MT, K1 row. Release punchcard. Set carriage for slip st knitting and work 66 rows of patt.

Bring RB into position for 1x1 rib. Transfer every alt st on to RB. Return empty MB Ns to NWP. Using MT/MT, K2 rows. Using B, KŽ rows. Using A, K2 rows. Transfer sts to MB. Cast off loosely.

**BUTTONHOLE BAND** 

Push 170[180:190:200] Ns to WP. With right side facing, hang left front edge evenly on to Ns. Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty MB Ns to NWP. Set RC at 000. Using A and MT-1/MT-1, K10 rows. Work 3 buttonholes. Place the first 7 sts in from left edge, the third opposite beg of front slope. Using B, K2 rows. Using A, K20 rows. Work buttonholes

over the same Ns as before. K

until RC shows 44. Transfer sts to MB. Cast off very loosely.

**BUTTON BAND** 

Work as given for buttonhole band over right front edge, omitting buttonholes.

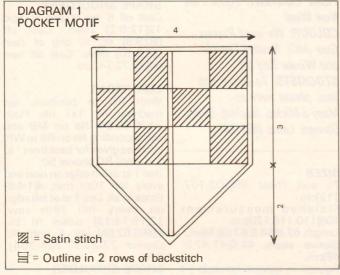
**BACK NECKBAND** 

Push 48[48:52:52] Ns to WP. With purl side facing, hang back neck edge evenly on to Ns and complete to correspond with button band.

TO MAKE UP

With wrong side facing, block pieces out to correct measurements and press. Join shoulder and band seams. Fold bands in half to inside and catch down. Sew in sleeves. Join side and sleeve seams.

Using B, embroider badge on pocket as shown in Diagram 1. Attach pocket. Finish buttonholes. Sew on buttons.



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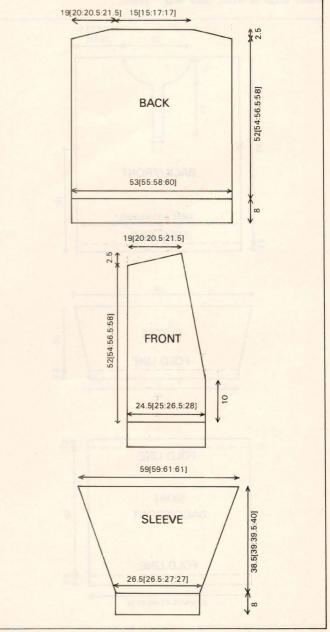
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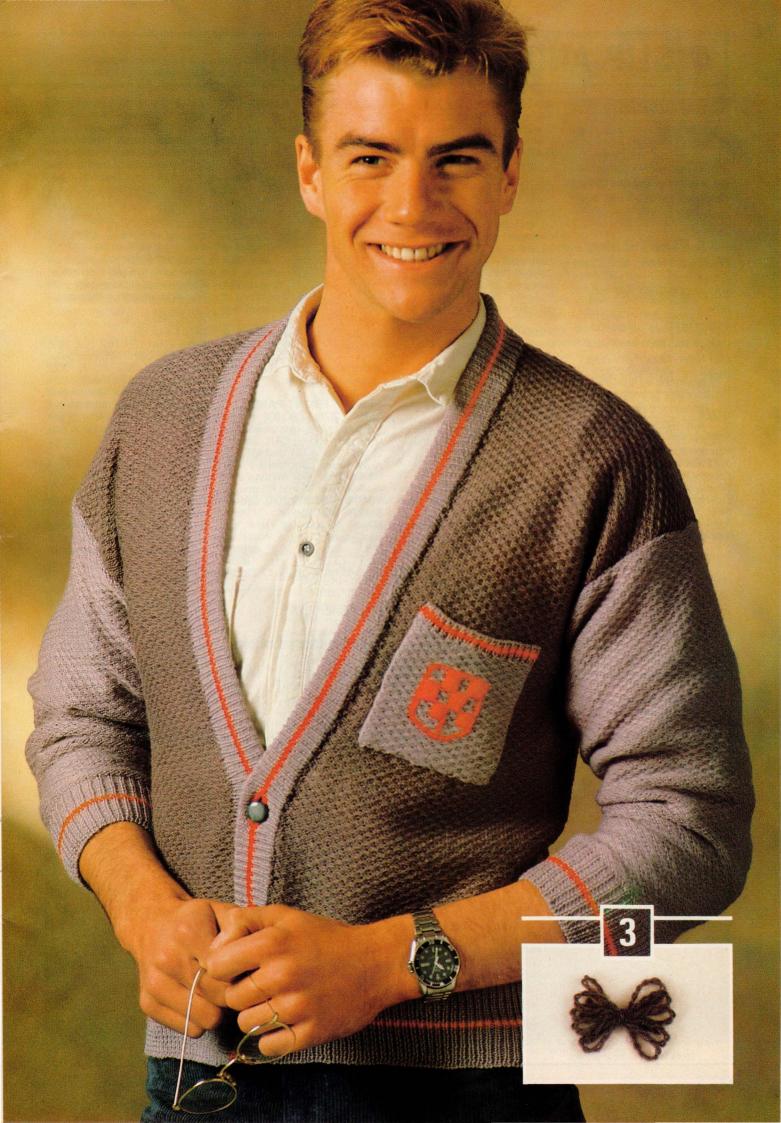
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# SLIP AND LACE SWEATER

# ILLUSTRATED ON PAGE 30



**MACHINES**: These instructions are written for standard gauge punchcard machines with lace facility but with or without ribber

YARN: Atkinson Soft Cotton FIBRE CONTENT: 100% Cotton

COLOUR: We used Ice Blue (MY)

STOCKISTS: To obtain this yarn, please write to Atkinson Mail Order Yarns, Terry Mills, Ossett, W. Yorks WF5 9SA

## SIZES

To suit bust 82[86:92:97: 102]cm.

Finished measurement 100[105:108:114:119]cm. Length 58[59:60:61:62]cm. Sleeve seam 49cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

## MATERIALS

Atkinson Soft Cotton. 2 x 350g cones in MY.

**GARMENT WEIGHS** 412g for size 86cm.

# MAIN TENSION

29 sts and 44 rows to 10cm measured over st st. 29 sts and 42 rows to 10cm measured over lace patt. 29 sts and 53 rows to 10cm measured over slip st patt (tension dial approx 6).

Tensions must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

## NOTE

Purl side is used as right side of slip st patt.

Knit side is used as right side of lace patt and st st.

Measurements given are those of finished garment and should not be used to measure work on the machine.

## **PUNCHCARD PATTERNS**

We used Jones+Brother lace patt No 427.

Punch cards 1, 2 and 3 before starting to knit.

**CENTRE BACK PANEL** 

Push 72[75:77:80:83] Ns to WP. Using WY, cast on and K a few rows ending CAR. Set RC at 000. Using MY and MT, K 226[230:234:238:242] rows.

SHAPE NECK

Using a length of MY, cast off the centre 30[33:33:34:35] sts. Using nylon cord, K 21[21:22: 23:24] sts at left by hand taking Ns down into NWP. Cont on rem 21[21:22:23:24] sts at right for first side. K1 row. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next row, K1 row. Dec 1 st at beg of next row, K2 rows. Cast off rem 15[15:16:17:18] sts.

Unravel nylon cord over sts at left. Reset RC at 226[230:234: 238:242]. Complete to correspond with first side, reversing shapings.

**CENTRE FRONT PANEL** 

Push 72[75:77:80:83] Ns to WP. Using WY, cast on and Ka few rows ending CAR. Set RC at 000. Using MY and MT, K2 rows. Insert punchcard 1. Set machine for lace knitting and work in patt. K until RC shows 194[196:200:202:204]. CAR.

# SHAPE NECK

Make a note of row on punchcard. Using a length of MY, cast off the centre 20[23:23:24:25] sts. Using nylon cord, K 26[26:27:28:29] sts at left by hand taking Ns down into NWP. Cont on rem 26[26:27:28:29] sts at right for first side. K1 row. Cast off 3 sts at beg of next row. K1 row. Cast off 2 sts at beg of next and foll alt row. K1 row. Dec 1 st at beg of next and every foll alt row, 4 times in all. 15[15:16:17:18] sts. K until RC shows 222[226: 232:236:240]. Cast off.

Unravel nylon cord over sts at left. Reset RC at 194[196:200: 202:204]. Reset punchcard on row previously noted. Complete to correspond with first side, reversing shapings.

## SIDE PANELS (KNIT FOUR)

Push 156[159:162:164:167] Ns to WP. Using MY, cast on by hand. CAR. Set RC at 000. Using MT, K1 row. Insert K1 row. Insert punchcard 2 and lock on first row. Set machine for patt. K1 row. Release punchcard. Set carriage for slip st knitting and work in patt. K until RC shows 70[74:78:82:86]. CAR.

Cast off 35 sts at beg of nextrow. K1 row. Cast off 6 sts at beg of next and foll alt row. K1 row. Cast off 4 sts at beg of next and every foll alt row, 5 times in all. K1 row. Cast off 3 sts at beg of next and every foll alt row, 3 times in all. K1 row. Cast off 2

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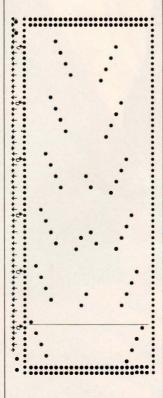
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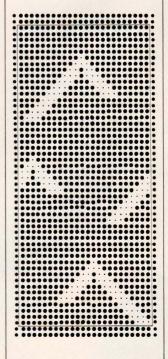
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# **PUNCHCARD 1**



Punchcard reproduced courtesy of Jones+Brother

# **PUNCHCARD 2**



**PUNCHCARD 3** 



sts at beg of next and every foll alt row, 5 times in all.

K1 row. Dec 1 st at beg of next and every foll alt row, 12 times in all. K3 rows. Dec 1 st at beg of next and every foll 4th row, 4 times in all. K7 rows. Dec 1 st at beg of next and every foll 8th row, 3 times in all. 51[54:57: 59:62] sts. K until RC shows 302[306:310:314:318]. Set machine for st st. K2 rows. Using WY, release from machine.

Knit one more panel to correspond and another two panels, reversing shapings.

Before cont, block pieces out to correct measurements and press. Join side panels to centre front and back panels. Join one shoulder and upper arm seam.

## MACHINES WITH RIBBER **NECKBAND**

With RB in position, set machine for 1x1 rib. Push 119[125:131:137:143] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using MY, cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K26 rows. Transfer sts to MB. Using MT, K1 row. With wrong side facing, hang neck edge evenly on to Ns. K1 row. Cast off.

## **CUFFS**

Join rem shoulder and upper arm seam. With RB in position, set machine for 1x1 rib. Push 55[59:61:65:67] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using MY, cast on and K3 tubular rows. Set RC at 000. Using MT-3/MT-3, K60 rows. Transfer sts to MB \*

With wrong side facing, hang lower edge of sleeve evenly on to Ns dec 47[49:53:53:57] sts as you go. Using MT, K1 row. Cast off.

# WELTS

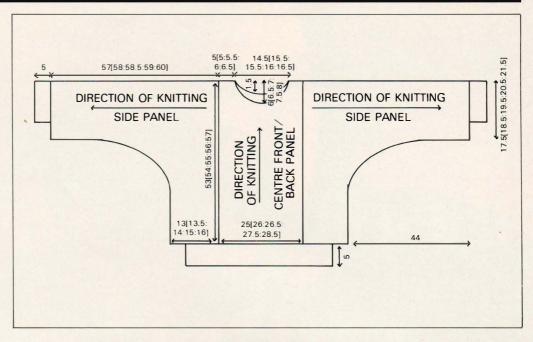
With RB in position, set machine for 1x1 rib. Push 101[107:115:121:129] Ns on MB and corresponding Ns on RB to WP. Work as given for cuff from \* to \*

With wrong side facing, hang lower edge of front on to Ns as folls: Left side panel over 26[28: 30:32:34] Ns, centre front panel over 49[51:55:57:61] Ns and rem side panel over 26[28: 30:32:34] Ns. Using MT, K1 row. Cast off.

Rep for lower edge of back.

# **MACHINES WITHOUT** RIBBER **NECKBAND**

Push 119[125:131:137:143] Ns to WP. Return every 3rd N to NWP (2x1 mock rib). Using WY, cast on and K a few rows. Set RC at 000. Using MY and MT-2, K13 rows. Using MT+1, K1



row. Using MT-2, K13 rows. Return every 3rd N to WP. Make a hem by hanging loops from first row of MY on to corresponding Ns. Using MT, K1 row. With wrong side facing hang neck edge evenly on to Ns. K1 row. Cast off.

## **CUFFS**

Join rem shoulder and upper arm seam. Push 56[59:62:65: 68] Ns to WP. \*\* Return every 3rd N to NWP (2x1 mock rib). Using WY, cast on and K a few rows. Set RC at 000. Using MY and MT-2, K30 rows. Using MT+1, K1 row. Using MT-2, K30 rows. Return every 3rd N to WP. Make a hem by hanging loops from first row of MY on to corresponding Ns 1

With wrong side facing, hang lower edge of sleeve evenly on to Ns dec 46[49:52:53:56] sts as you go. Using MT, K1 row. Cast off

# WELTS

Push 101[107:113:122:128] Ns to WP. Work as given for cuffs from \*\* to \*\*. With wrong side facing, hang lower edge of front on to Ns as folls: Left side panel over 26[28:29:32:34] Ns, centre front panel over 49[51:55:58:60] Ns and rem side panel over 26[28:29:32: 34] Ns. Using MT, K1 row. Cast

Rep for lower edge of back.

# **ALL MACHINES MOCK CABLE TRIM** (KNIT TWO)

Push 3 Ns at left and 4 Ns at right of centre 'O' to WP. Using MY, cast on by hand. CAR. Using MT, K1 row. Insert punchcard 3 and lock on row. Set RC at 000. Set machine for patt. K1 row. Set carriage for tuck st knitting, K6 rows. Set carriage for st st, K2 rows. Rep the last 8 rows until RC shows

550[560:570:580:590]. Using WY, K a few rows and release from machine.

# TO MAKE UP

Pin cable trim in position over panel seams starting at lower edge of front and finishing at lower edge of back. Adjust length of each trim as required,

stitch in place. Join side and sleeve seams. For sweaters with ribbed welts, fold welts, cufs and neckband in half to inside and catch in position. (This double welt is more successful than a single one when using a yarn with little elasticity like cotton.) Give a final press.



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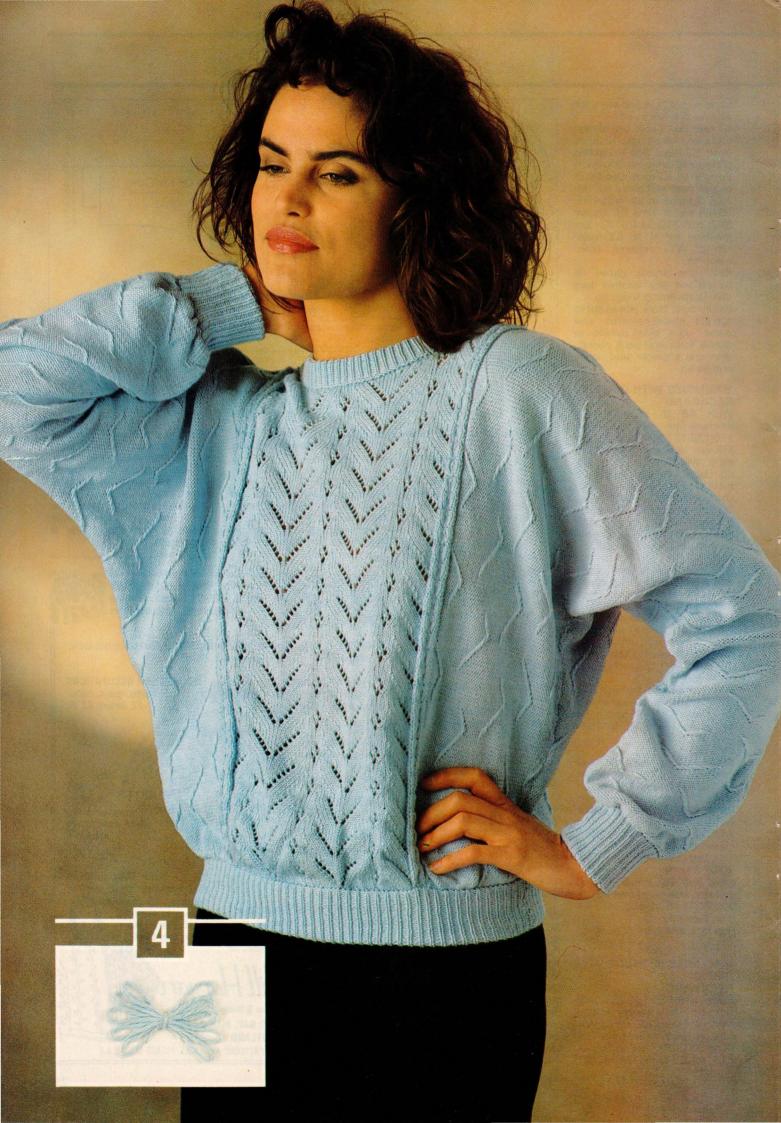
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# FOUR-COLOUR CARDIGAN

## ILLUSTRATED ON PAGE 35



**MACHINES:** These instructions are written for standard gauge punchcard machines

YARN: Forsell 4 ply Wool FIBRE CONTENT: 100% Pure New Wool

COLOUR: We used Ivory (MC). Seafoam (A), Black (B) and Grape (C)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to T Forsell & Son, Blaby Road, South Wigston, Leicester LE8 2SG

## SIZES

To suit bust 86[92:97:102]cm. Finished measurement 98[103:106:109]cm.

Length 62[63:64.5:65.5]cm. Sleeve seam 40[41:42: 42.5]cm.

Figures in square brackets [ ] refer to larger sizes; where there is only one set of figures this applies to all sizes.

## MATERIALS

Forsell 4 ply Wool. 1 x 500g cone in each shade.

# **GARMENT WEIGHS** 787g for size 92cm.

# MAIN TENSION

32 sts and 60 rows to 10cm measured over slip and Fair Isle patt (tension dial approx 7). Tension must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **PUNCHCARD PATTERN**

Punch card before starting to

# **SLIP & FAIR ISLE PATTERN**

Commence on row 13 of punchcard. Use MC in feeder 1/A for all Fair Isle rows. Set carriage for slip st. Using B, K8 rows.

Set carriage for Fair Isle knitting. Using MC + A, K13 rows.

Set carriage for slip st. Using B, K8 rows.

Set carriage for Fair Isle knitting. Using MC + A, K13 rows.

Set carriage for slip st. Using B, K8 rows.

Set carriage for Fair Isle knitting. Using MC + C, K13

Set carriage for slip st. Using B, K8 rows.

Set carriage for Fair Isle knitting. Using MC + C, K13

These 84 rows form the patt sequence.

Push 79[82:85:87] Ns at left and right of centre '0' to WP. 158[164:170:174] Ns.

\* Using WY, cast on and K a few rows, CAR. Using nylon cord, K1 row. Insert punchcard and lock on 13th row. Set machine for patt. Using MC and MT, K1 row. Release punchcard. Set RC at 000. Foll colour sequence given, work in slip and Fair Isle patt\*

K240 rows. Place a marker at each end of last row. K until RC shows 390[398:406:410].

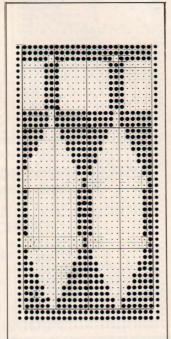
# SHAPE SHOULDERS

Cast off 9[12:15:17] sts at beg of next 2 rows, K4 rows. Cast off 10 sts at beg of next 14 rows.

# RIGHT FRONT

Push 43 Ns at left and 31[34:37:39] Ns at right of centre '0' to WP. 74[77:80:82] Ns. Work as given for back

K until RC shows 240. Place a marker at the right edge of last row. Dec 1 st at left edge on next and every foll 10th row, 7 times in all. K until RC shows 304. Dec 1 st at left edge on next and every foll 10th row, 3 times in all. K until RC shows 330. Dec 1 st at left edge on



next and then the foll 6th row. K until RC shows 346. Dec 1 st at left edge on next and every foll 4th row, 3 times in all. 59[62:65:67] sts.

K until RC shows 364. Dec 1 st at left edge on next and then the foll 6th row. K until RC shows 374. Dec 1 st at left edge, on next and then the foll 4th row. K until RC shows 388. Dec 1 st at left edge. 54[57:60:62] sts. K until RC shows 390[398:406:410].

## SHAPE SHOULDER

Cast off 9[12:15:17] sts at beg of next row. K5 rows. Cast off 10 sts at beg of next and foll 3 alt rows. K1 row. Cast off rem 5

# **LEFT FRONT**

Work as given for right front reversing needle settings and

## **SLEEVES**

Push 45[47:50:52] Ns at left and right of centre '0' to WP. Work as given for back from \* to \*. K10 rows.

# SHAPE SIDES

Inc 1 st at each end, K4 rows, 3[3:2:2] times.

K until RC shows 30. Inc 1 st at each end, K4 rows, 2[3:3:3] times. K until RC shows 52. Inc. 1 st at each end, K2 rows, 3[3:4:4] times. K until RC shows 72. 106[112:118:122] sts. Inc 1 st at each end, K4 rows, 3[3:2:3] times. K until RC shows 94. Inc 1 st at each end, K4 rows, 2[2:3:2] times. K until RC shows 114.

Inc 1 st at each end, K4 rows, 3[1:2:2] times. K until RC shows 136. 122[124:132:136] sts. Inc 1 st at each end, K2 rows, 2[4:3:4] times. K until RC shows 158. Inc 1 st at each end, K4 rows, 2[2:3:2] times. K until RC shows 178. Inc 1 st at each end, K4 rows, 2[2:1:2] times. K until RC shows 198. Inc 1 st at each end, K4 rows, 3 times. K until RC shows 220. 140[146:152:158] sts. Inc 1 st at each end, K6 rows, 2[2:1:2] times. K until RC shows 240. Inc 1 st at each end, K2 rows, 3[3:4:4] times. 150[156:162: 170] sts. K until RC shows 260[264:268:272]. SHAPE TOP

Cast off 5[8:11:15] sts at beg of next 2 rows. Cast off 10 sts at beg of next 6 rows. K8 rows. Cast off 10 sts at beg of next 8 rows.

# TO MAKE UP

Block pieces out to correct



# 5 CARDIGAN

measurements. Carefully steam. Do not allow iron to touch fabric. Join shoulder seams. Sew in sleeves. Join side and sleeve seams. Turn up hem of 13 rows at lower edge (½ diamond). Catch in place st by st unravelling WY as you go. Rep at lower edge of sleeves. BUTTONHOLE BAND

Push 95 Ns at left and right of centre 'O' to WP. Using WY, cast on and K a few rows ending CAL. Lock punchcard on first row. Set machine for patt. Using MC and MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and A in feeder 2/B, K8 rows. Work 4 buttonholes over Ns 80-77:56-53:31-28 and 8-5 at left of

centre '0', K4 rows.

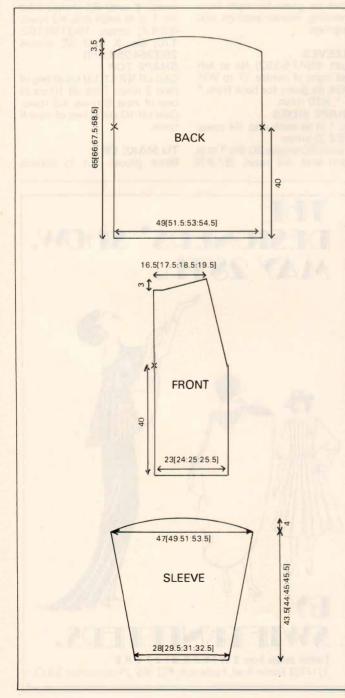
Set carriage for slip st. Using B, K8 rows. Set machine for st st. Using MC, K until RC shows 26. Work 4 buttonholes over the same Ns as before. K until RC shows 33. Make a hem by hanging sts from first row of MC on to corresponding Ns. K1 row. With wrong side facing, hang right front edge and half of back neck evenly on to Ns. Using T10, K1 row. Cast off using latch tool method.

**BUTTON BAND** 

Work as given for buttonhole band omitting buttonholes and attaching to left front and rem half of back neck

Join centre back band seam. Finish buttonholes and attach buttons

Steam front bands.



# 6 BOY'S SWEATER

# ILLUSTRATED ON PAGE 37



MACHINES: These instructions are written for standard gauge punchcard machines with ribber YARN: Bonnie's 4 ply Acrylic FIBRE CONTENT: 100%

Acrylic

COLOUR: We used B20 (MC) and B11 (C)

STOCKISTS: If you have any difficulty in obtaining this yarn please write to Bonnie's Wools, 1273 Bristol Road South, Northfield, Birmingham B31 2SP

## SIZES

To suit chest 65[71:76:81: 86]cm.

Finished measurement 78[83:88:93:98]cm. Length 56[57.5:58.5:63.5:

67.5]cm. Sleeve seam 34[38:39.5:41.5:

41.5]cm.

Figures in square brackets [] refer to larger sizes, where there is only one set of figures this applies to all sizes.

## **MATERIALS**

Bonnie's 4 ply Acrylic. 1 x 450g cone in MC. 1 x 450g cone in C. 3 buttons.

GARMENT WEIGHS 286g for size 76cm.

## MAIN TENSION

30 sts and 40 rows to 10cm measured over st st.
30.5 sts and 35 rows to 10cm measured over Fair Isle patt, (tension dial approx 6).
Tension must be matched exactly before starting garment.

# ABBREVIATIONS See page 19.

# NOTE

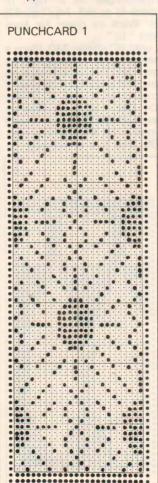
Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

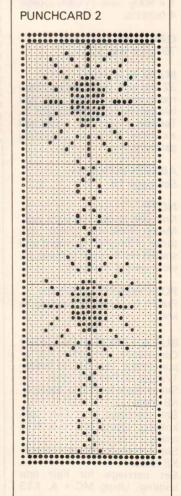
## **PUNCHCARD PATTERNS**

Punch cards 1 and 2 before starting to knit

## BACK

With RB in position, set machine for 1x1 rib. Push 118[126:134:142:150] Ns on





MB and corresponding Ns on RB to WP. \* Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K30 rows. Transfer sts to MB\*.

Insert punchcard 1 and lock on first row. Set machine for patt. Using MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and C in feeder 2/B work in patt. K 98[102:106:112:120] rows.

SHAPE ARMHOLES

Cast off 9[9:12:15:15] sts at beg of next 2 rows. K until RC shows 168[174:178:192:206]. SHAPE SHOULDERS

Cast off 9[10:10:10:12] sts at beg of next 4 rows. Cast off 9[10:11:11:11] sts at beg of next 2 rows. Cast off rem 46[48:48:50:50] sts.

## FRONT

Work as given for back until RC shows 116[122:126:140:154].

DIVIDE FOR FRONT OPENING

Make a note of row on punchcard. Using a length of MC, cast off the centre 6[6:6:8:8] sts. Using nylon cord K sts at left by hand taking Ns down into NWP. Cont on rem

47[51:52:52:56] sts at right for first side. K until RC shows 151[157:161:175:189]. CAL.

SHAPE NECK

Cast off 8[9:9:9:9] sts at beg of next row. Dec 1 st at neck edge on next 10 rows. Dec 1 st at neck edge on the foll 2 alt rows. 27[30:31:31:35] sts. K until RC shows 168[174:178:192:206].

SHAPE SHOULDER

Cast off 9[10:10:10:12] sts at beg of next and foll alt row. K1 row. Cast off rem 9[10:11:11:11] sts.

Unravel nylon cord over sts at left. Reset punchcard on row previously noted. Reset RC at 116 [122:126:140:154]. Complete to correspond with first side reversing shapings.

SLEEVES

With RB in position, set machine for 1x1 rib. Push 26[27:29:31:31] Ns at left and right of centre 'O' on MB to WP. Push corresponding Ns on RB to WP. Work as given for back from \* to \*. Insert punchcard 2 and lock on first row. Set machine for single motif over the centre 24 Ns. Using MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using MC in

feeder 1/A and C in feeder 2/B work in patt.

1ST[5TH] SIZES ONLY

Inc 1 st at each end of next and every foll 3rd row, 10[12] times in all. Inc 1 st at each end of every foll 4th row, 23[30] times.

2ND[3RD:4TH] SIZES ONLY Inc 1 st at each end of next and every foll 4th row, 34[32:37] times in all.

**ALL SIZES** 

118[122:122:136:146] sts. K until RC shows 122[138:148: 158:158].

SHAPE TOP

Cast off 8[8:8:9:10] sts at beg of next 12 rows. Cast off 11[13:13:14:13] sts at beg of next 2 rows.

**BUTTONHOLE BAND** 

Push 30 Ns to WP. With wrong side facing hang left edge of front opening on to Ns. Set RC at 000. Using MC and MT, K1 row. Using MT-2, K3 rows. Work 3 evenly spaced buttonholes, K4 rows. Using MT, K1 row. Using MT-2, K4 rows. Work buttonholes over the same Ns as before, K3 rows. Using MT, K1 row. RC shows 17. Using WY, K a few rows and release from machine.

**BUTTON BAND** 

Push 30 Ns to WP. With wrong side facing hang right edge of front opening on to Ns. Work as given for buttonhole band omitting buttonholes.

Fold bands to inside and slip st in place, unravelling WY as you go.

COLLAR

With RB in position, set machine for full needle rib. Push 100[100:106:110:110] Ns on MB and corresponding Ns on RB to WP. Using MC cast on and K3 tubular rows. Set RC at 000. Using MT-1/MT-1, K 6[6:7:7:7] rows. Using MT-2/MT-2, K 6[6:7:7:7] rows. Using MT-3/MT-3, K 6[6:7:7:7] rows.

Set carriage to knit on MB only. Using MT-1, K3 rows. Using WY, K6 rows. Set carriage to knit on RB only. Using MC and MT-1, K3 rows. Using WY, K6 rows. Release work from machine.

TO MAKE UP

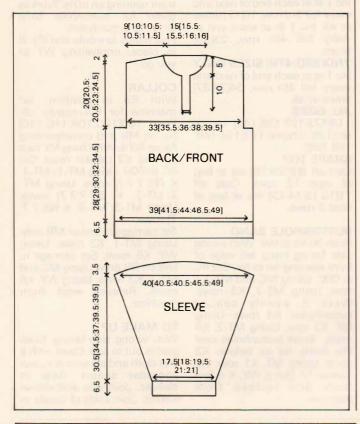
With wrong side facing, block pieces out to size. Cover with a wet cloth and allow to dry. Join shoulder seams. Sew in sleeves. Join side and sleeve seams. Join ends of bands to

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# 6 BOY'S SWEATER

cast off section at start of front opening. Pin collar in position, enclosing neck edge between st st section. Back st through open loops of last row of MC, unravelling WY as you go.





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# 7 LADY'S LACE SUIT

## **ILLUSTRATED ON PAGE 43**



MACHINES: These instructions are written for standard gauge punchcard machines with lace facility and ribber. We used a Knitmaster 360 with ribber MACHINES WITHOUT

RIBBER: See page 19

**YARN:** Bramwell Hobby and Silky

FIBRE CONTENT: Hobby is 83% Acrylic, 17% Nylon. Silky is 100% Bright Acrylic COLOUR: We used Hobby in Turquoise (MC) and Silky in Turquoise (C)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to F.W. Bramwell & Co Ltd., Unit 5, Lane Side, Metcalf Drive, Altham, Accrington, Lancs BB5 5TU

# SIZES TOP

To suit bust 81-86[91-96:101-106]cm.
Finished measurement 94[104:114]cm.
Length 52[61:67]cm.
Sleeve seam 41[48:52]cm.
SKIRT

To suit hip 91-96[101-106:111-116]cm.
Finished measurement 150[150:180]cm.
Length 71[76:82]cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

## **MATERIALS**

Bramwell Hobby.
1[1:2] x 500g cones in MC.
Bramwell Silky.
1 x 500g cone in C.
Waist length of 2.5cm elastic.

# **GARMENT WEIGHS**

**Top:** 202g for size 81-86cm. **Skirt:** 257g for size 91-96cm.

## MAIN TENSION

Use 1 strand of Hobby and 1 strand of Silky tog.
Both tension pieces are steam pressed before measuring.
27 sts and 36 rows to 10cm

27 sts and 36 rows to 10cm measured over diamond lace patt.
28 sts and 36 rows to 10cm

measured over stripe lace patt (tension dial approx  $4 \cdot \cdot$ ). Tensions must be matched exactly before starting garment.

# ABBREVIATIONS See page 19.

## NOTE

Knit side is used as right side. 1 strand of Hobby and 1 strand of Silky are used tog throughout and referred to as MC+C.

Skirt is shaped by changing tension.

Measurements given are those of finished garment and should not be used to measure work on the machine.

## **PUNCHCARD PATTERNS**

We used Knitmaster lace card No 403.

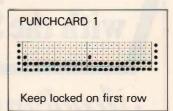
Punch cards 1 and if necessary 2 before starting to knit.

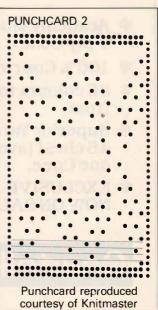
# TOP

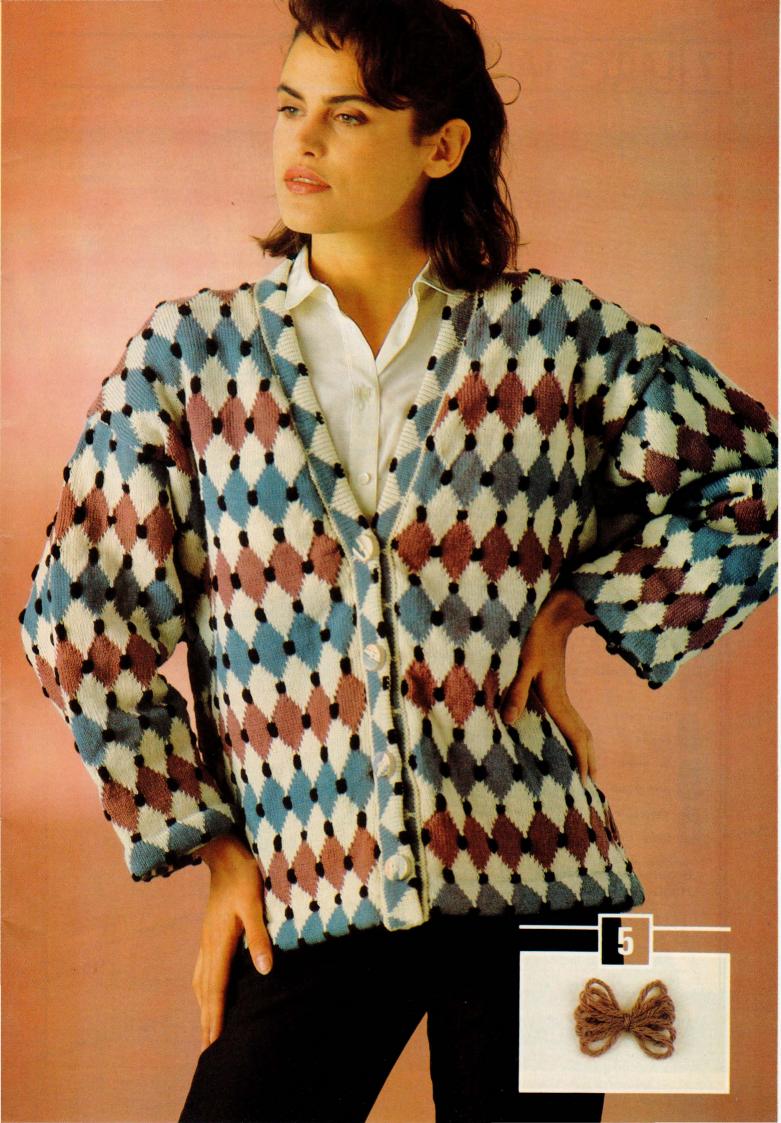
BACK AND FRONT ALIKE

With RB in position, set machine for 1x1 rib. Push 131[145:159] Ns on MB and corresponding Ns on RB to WP. \* Arrange Ns for 1x1 rib. CAL. Using MC+C, cast on and K3 tubular rows. Set RC at 000. Using MT-2··/MT-2··, K30 rows. Transfer sts to MB. Insert punchcard 1 and lock on row. Set machine for lace knitting. Using MT, K1 row. Set RC at 000. Work in lace patt \*. K until RC shows 126[156: 186]. CAR.

Remove punchcard 1 and insert punchcard 2. Lock on first row. Set machine for patt. Make two free moves with carriage to memorise patt,







# LADY'S LACE SUIT

ending CAR. Reset RC at 126[156:186]. Release punchcard and work in lace patt. K until RC shows 161[191:221]. Set machine for st st. K1 row.

Bring RB into position for 1x1 rib. Transfer every alt st to RB. Return empty Ns on MB to NWP. Hang comb and weights. Using MT-1··/MT-1··, K9 rows. Using T10/T10, K1 row Cast off using latch tool method.

# **SLEEVES**

With RB in position, set machine for 1x1 rib. Push 69[71:75] Ns on MB and corresponding Ns on RB to WP. Work as given for back from \* to \*.

Shape sides by inc 1 st at each end of every foll 4th row, 31[35:38] times. 131[141: 151] sts. K until RC shows 139[153:169]. Set machine for st st. Place a marker on centre st. Using T10, K1 row. Cast off using latch tool method.

## TO MAKE UP

With wrong side facing, block and steam press pieces to correct measurements. Avoid steaming ribs. Join shoulder seams leaving enough room for

head. Sew in sleeves, matching centre marker to shoulder seam. Join side and sleeve seams. Give a final

# SKIRT PANEL

(KNIT 2[2:3])

Push 200[200:160] Ns to WP. Using WY, cast on and K a few rows ending CAL.

Using nylon cord, K1 row. Using MC+C and MT++, K6 rows. Work picot edge. Transfer every alt st on to adjacent N. Leave empty Ns in WP. K5 rows. Pick up loops from first row knitted in MC+C and hang on to corresponding

Insert punchcard 2 and lock on first row. Set RC at 000. Set machine for lace knitting. Using MT+2·, K1 row. Release punchcard and work in lace patt. Using MT++, K until RC shows 36. Remove punchcard 2 and insert punchcard 1. Lock on row. Set machine for patt. Make a free move with carriage to memorise patt. Reset RC at 36. CAR. Work in lace patt. Using MT+1·, K until RC shows 50. Using MT+1, K until RC shows 70[75:80]. Using MT+··, K until RC shows 90[100:110]. Using MT++, K until RC shows 110[130:150]. Using MT, K until RC shows 140[165:190]. Using MT--, K until RC shows 170[200:230]. Using MT-.., K until RC shows 190[225:260]. Using MT-1, K until RC shows 210[245:280]. Using MT-1., K until RC shows 230[256:289]. Using MT-1··, K 9[9:0] rows. RC shows 239[265:289].

Set machine for st st. Using MT, K1 row. Using WY, K a few rows and release from machine.

## TO MAKE UP

With wrong side facing, block and steam press panels to measurements. Keep waist edge desired measurement and allow to fan out towards hem so that lower lace section is fully visible.

# WAISTBAND **1ST AND 2ND SIZES**

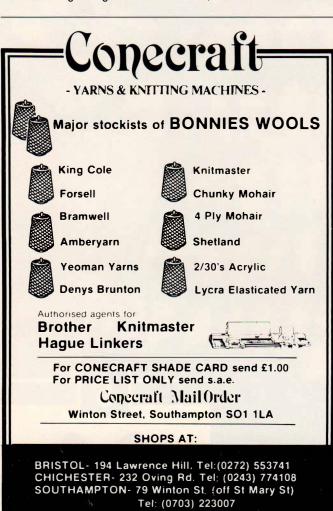
Join one side seam. Push 200

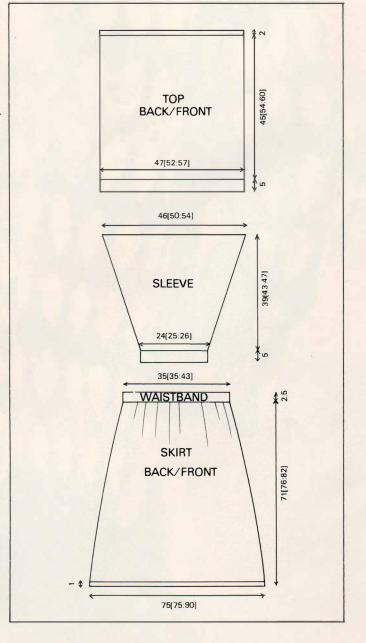
Ns to WP. With wrong side facing, pick up sts from last row knitted in MC+C from both panels and hang on to Ns placing 2 sts on to every N. Using MC+C and MT-.., K26 rows. Cast off very loosely. Join rem size seam.

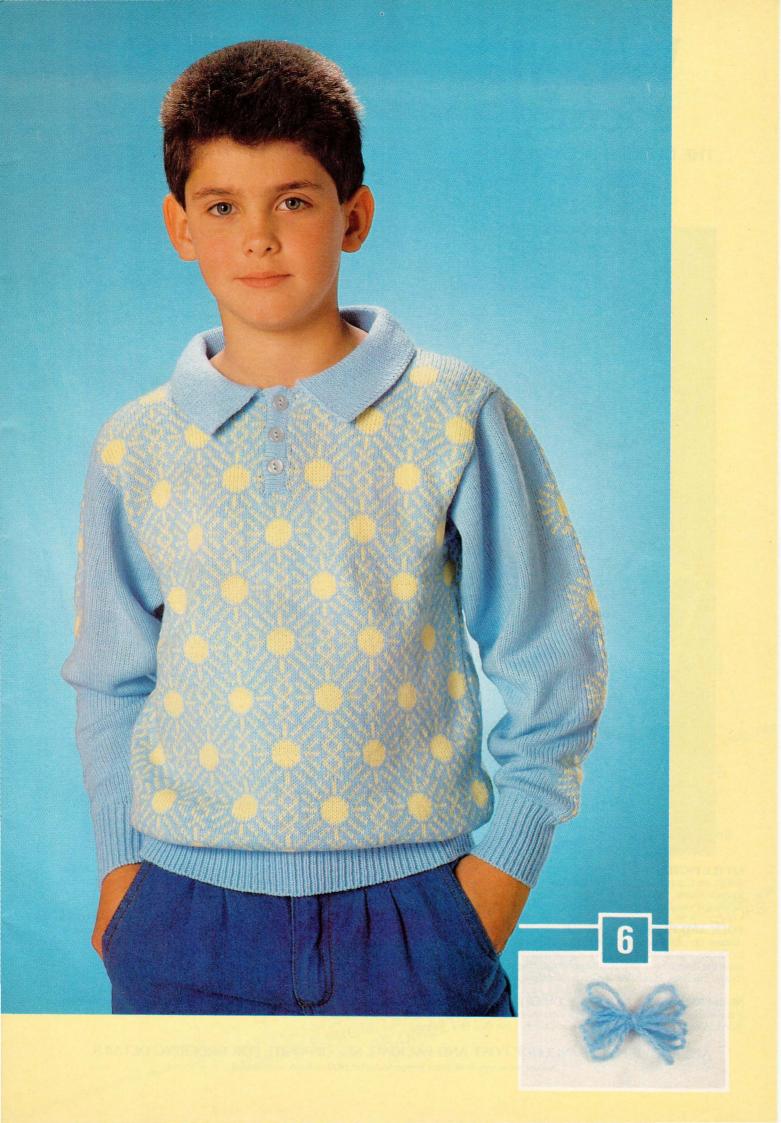
## 3RD SIZE

Join panels tog. Placing one seam at centre back, mark each side point with contrast yarn. Push 120 Ns to WP. With wrong side facing, pick up sts from last row knitted in MC+C from back waist edge and hang on to Ns placing 2 sts on to every N. Using MC+C and MT-··, K26 rows. Cast off very loosely.

Rep for rem front waist edge. Join waistband seam. Fold waistband in half to wrong side and catch down, leaving an opening for elastic. Insert elastic. Secure ends. Sew in hanger loops if required. Give a final press.







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# **GARTER STITCH SWEATER**

# **ILLUSTRATED ON PAGE 45**

**MACHINES:** These instructions are written for standard gauge punchcard machines with garter carriage. We used a Jones+ Brother 881 with KG88 YARN: Yeoman Perlé 3 ply FIBRE CONTENT: 100%

Cotton

COLOUR: We used Pink (MY) STOCKISTS: To obtain this yarn, please write to Yeoman Yarns Ltd., 31 High Street, Kibworth, Leics LE8 OHS

### SIZES

To suit bust 82[87:92:97: 102]cm. Finished measurement 92[98: 102:107:112]cm. Length 63.5cm. Sleeve seam 41.5cm. Figures in square brackets [ ] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

# MATERIALS

Yeoman Perlé 3 ply.

2 x 250g cones in MY.

# **GARMENT WEIGHS** 418g for size 87cm.

# MAIN TENSION

31 sts and 50 rows to 10cm measured over main garter st patt (tension dial approx 4). Tension must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

### NOTE

The front neck is shaped using the cut and sew method. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **PUNCHCARD PATTERNS**

We used a combination of stitch patterns from the Brother Garter Stitch Pattern Book. Punch cards as shown before starting to knit. Join cards 1, 2 and 3 tog for main patt.

\* Push 142[152:158:166:174] Ns to WP. \*\* Using MY, cast on by hand. Insert punchcard 4 and set on first row. Attach garter carriage. Using MY and MT-2, K26 rows. Remove punchcard 4. Insert punchcard for main patt and set on first row of punchcard 1 \*\*.

Using MT, K 184[184:184:172: 172] rows

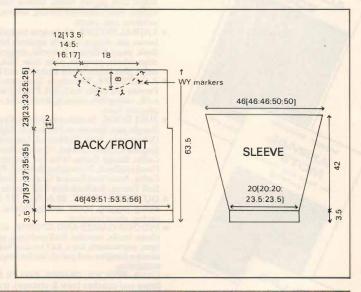
# SHAPE ARMHOLES

Cast off 6 sts at beg of next 2 rows 1

K 110[110:110:122:122] rows. 296 rows have been worked. Place a marker on the 28th stat left and right of centre 'O'. Cast

### **FRONT**

Work as given for back from \* to K 70[70:70:82:82] rows. Place a marker on the 16th stat left and right of centre '0'. K20 rows. Place a marker on the 28th st at left and right of centre 'O'. K20 rows. Place a marker on the 28th st at left and right of centre '0'. Cast off













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# **SLEEVES**

Push 62[62:62:72:72] Ns to WP. Work as given for back from \*\* to \*\*. Using MT, K5 rows. Shape sides by inc 1 st at each end of next and every foll 5th row, 40[40:40:32:32] times in all. Inc 1 st at each end of every foll 4th row, 0[0:0:10:10] times. 200 rows have been worked. 142[142:142:156:156] sts. K10 rows. Place a marker on centre st. Cast off.

### **NECKBAND**

**PUNCHCARD 1** 

Push 126 Ns to WP. Using main carriage and WY, cast on

Punchcard reproduced courtesy of Jones+Brother

# **PUNCHCARD 2**

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Punchcard reproduced courtesy of Jones+Brother

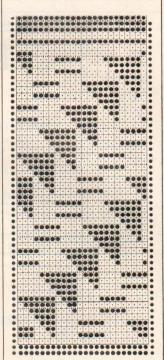
and K a few rows. Set RC at 000. Using MY and MT-2, K12 rows. Using MT+2, K1 row. Using MT-2, K12 rows. Using WY, K a few rows and release from machine.

# TO MAKE UP

Block pieces out to correct measurements and steam.

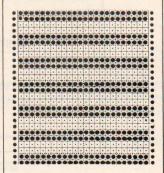
Using markers as guide, zig-zag by machine or backstitch by hand along front neckline. Cut away excess. Join shoulder seams. Join neckband seam. Pin neckband in position to right side of neck edge. Backstitch through open loops, unravelling WY as required. Fold neckband in half to inside enclosing neck edge and slip st in place. Sew in sleeves matching centre marker with shoulder seam. Join side and sleeve seams.

# **PUNCHCARD 3**



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# PUNCHCARD 4



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# **ILLUSTRATED ON PAGE 48**

Illiun Illiun.

MACHINES: These instructions are written for standard gauge punchcard machines with ribber MACHINES WITHOUT RIBBER: See page 19 YARN: Bramwell 4 ply Acrylic FIBRE CONTENT: 100%

Acrylic

COLOUR: We used Pink 373 (MC), Blue 316 (A), Jade 344 (B) and Yellow 455 (C) STOCKISTS: If you have any difficulty in obtaining this yarn, please write to F W Bramwell & Co Ltd, Unit 5, Lane Side, Metcalf Drive, Altham, Accrington, Lancs BB5 5TU

### SIZES

To suit chest 61[66]cm.
Finished measurement
66[71]cm.
Length 48[57]cm.
Sleeve seam 35.5[37]cm.
Skirt length 38[40]cm.
Figures in square brackets []

refer to the larger size; where there is only one set of figures, this applies to both sizes.

### **MATERIALS**

Bramwell 4 ply Acrylic. 1 x 500g cone in each shade. Waist length of elastic. 2 buttons.

# **GARMENT WEIGHS**

Sweater: 169g for size 61cm. Skirt: 184g for size 61cm.

### MAIN TENSION

30 sts and 35 rows to 10cm measured over Fair Isle patt. 27 sts and 39 rows to 10cm measured over st st (tension dial approx 7).

Tensions must be matched exactly before starting garment.

# ABBREVIATIONS

See page 19.

# NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

### PUNCHCARD PATTERN

Punch card before starting to knit.

COLOUR SEQUENCE

Use A in feeder 1/A throughout.
Using A+B, K16 rows.
Using A only, K1 row.
Using A+MC, K12 rows.
Using A only, K1 row.
Using A+C, K16 rows.
Using A only, K1 row.
Using A+MC, K12 rows.
Using A only, K1 row.
Using A only, K1 row.

These 60 rows form the colour sequence.

# SWEATER BACK

With RB in position, set machine for 1x1 rib. Push 98[106] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAL. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K24 rows. Transfer sts to MB.

Insert punchcard. Set machine for patt. Using MT, K1 row. Set RC at 000. Release punchcard.

Set carriage for Fair Isle knitting. Foll colour sequence given work in patt. K until RC shows 148[180]. Place a marker on 26th[30th] st in from each edge. Cast off.

### **FRONT**

Work as given for back until RC shows 118[150]. CAR. SHAPE NECK

Make a note of row on punchcard and position in colour sequence. Using a length of A, cast off the centre 26 sts. Using nylon cord, K 36[40] sts at left by hand taking Ns down into NWP. Cont on rem 36[40] sts at right for first side. K1 row. Dec 1 st at neck edge on next 10 rows. 26[30] sts. K until RC shows 148[180]. Cast off. Unravel nylon cord over sts at

Unravel nylon cord over sts at left. Reset punchcard on row previously noted. Reset RC at 118[150]. Complete to correspond with first side reversing shapings.

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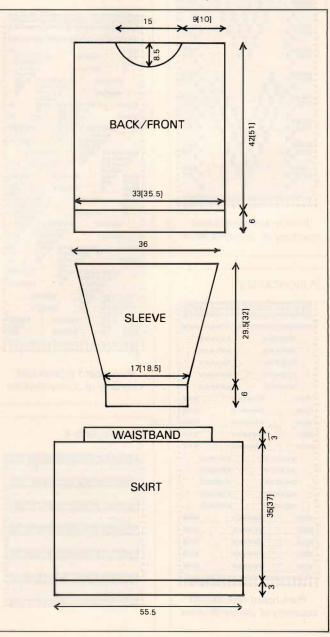
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# CHILD'S SUIT

SLEEVES
With RB in position, set machine for 1x1 rib. Push 46[50] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K24 rows. Transfer sts to MB. Set RC at 000. Using MT, K2 rows. Shape sides by inc 1 st at each end of next and every foll 4th[5th] row, 26[24] times in all. 98 sts. K until RC shows 114[124]. Place a marker on the centre st. Cast off.

### **NECKBAND**

With RB in position, set machine for 1x1 rib. Push 100 Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-1/MT-1, K5 rows. Using MT-2/MT-2, K5 rows. Using MT-3/MT-3, K10 rows. Using MT-2/MT-2, K5 rows. Using MT-1/MT-1, K5 rows. RC shows 30. Transfer sts to MB. Using MT, K1 row. Using WY, K a few rows and release from machine.

# TO MAKE UP

With wrong side facing pin

pieces out to correct measurements. Cover with a wet cloth and allow to dry. Join shoulder seams. Join neckband seam. Pin neckband to right side of garment. Back st in place through open loops of last row, unravelling WY as you go. Fold cast on edge to inside and catch down. Sew in sleeves matching centre marker to shoulder seam. Join side and sleeve seams.

# **BACK AND FRONT ALIKE**

Push 150 Ns to WP. Using MC, cast on by hand. CAR. Set RC at 000. Using MC and

MT-1, K10 rows. Using MT+2, K1 row. Using MT-1, K11 rows. RC shows 22.

Using MT, K3 rows. Insert punchcard and lock on first row. Set machine for patt. K1 row. Release punchcard. Set carriage for Fair Isle knitting. Using MC in feeder 1/A and B in feeder 2/B, K16 rows. Set machine for st st. Using MC, K until RC shows 160[170]. Using WY, K a few rows and release from machine.

# WAISTBAND

Push 80 Ns to WP. With wrong side facing hang front waist edge on to Ns, dec 70 sts evenly as you go. Using B and MT-1, K11 rows. Using MT+2, K1 row. Using MT-1, K10 rows. Cast off.

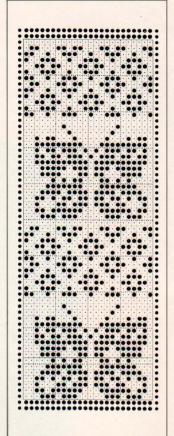
# STRAP (KNIT TWO)

Push 20 Ns to WP. Using MC, cast on by hand. Using MC and MT-1, K8 rows. Work two buttonholes. Counting from left edge transfer the 6th and 15th sts on to adjacent Ns at right. K until work measures approx 75[77]cm. Cast off.

# TO MAKE UP

With wrong side facing, block pieces out to correct measurements. Cover with a wet cloth and allow to dry. Join side seams. Fold waistband in half to inside. Slip st in position leaving an opening for elastic. Thread elastic through waistband. Secure ends. Close opening. Turn up hem at lower edge and slip st in place.

With right sides tog fold straps in half lengthwise and join side edges. Turn to right side. Finish buttonholes. Neaten end of straps. Lightly press, and attach to inside edge of back waistband. Sew buttons to front waistband.





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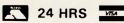
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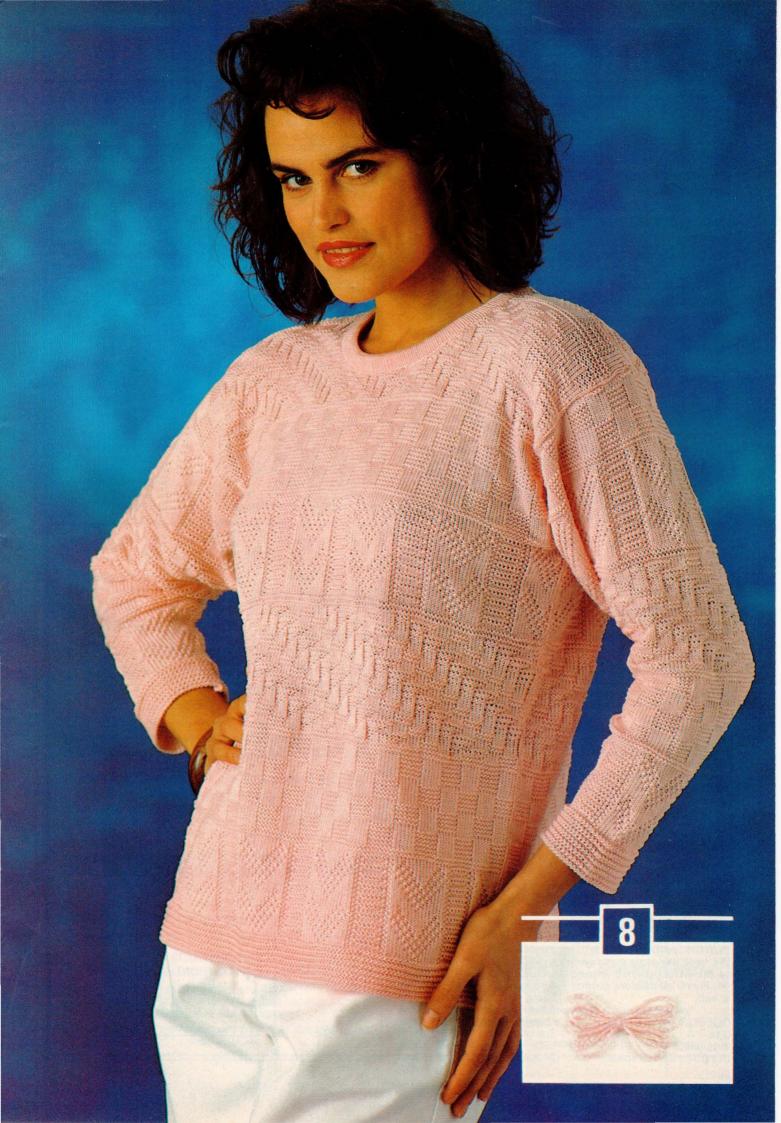
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# 10 TEEN'S SUIT

# **ILLUSTRATED ON PAGE 49**

MACHINES: These instructions are written for standard gauge punchcard machines with ribber YARN: Bramwell 4 ply Acrylic

FIBRE CONTENT: 100%

Acrylic

COLOUR: We used Pink 373 (MC), Blue 316 (A), Jade 344 (B) and Yellow 455 (C) STOCKISTS: If you have any difficulty in obtaining this yarn, please write to F.W. Bramwell & Co Ltd, Unit 5, Lane Side, Metcalf Drive, Altham, Accrington, Lancs BB5 5TU

### SIZES

To suit bust 76[82]cm.
Finished measurement 82[90]cm.
Length 55[64]cm.
Sleeve seam 42[44]cm.
Skirt length 36.5[38]cm.
Figures in square brackets [] refer to the larger size; where there is only one set of figures, this applies to both sizes.

# **MATERIALS**

Bramwell 4 ply Acrylic. 1 x 500g cone in each shade. Waist length of elastic.

# **GARMENT WEIGHS**

Sweater: 212g for size 76cm. Skirt: 132g for size 76cm.

# MAIN TENSION

30 sts and 35 rows to 10cm measured over Fair Isle patt. 27 sts and 39 rows to 10cm measured over st st (tension dial approx 7).

24 sts and 66 rows to 10cm measured over Fisherman's Rib (tension dial approx 3/3 = MT-3/MT-3).

Tensions must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

# NOTE

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **PUNCHCARD PATTERN**

We used the same punchcard as shown for pattern 9 on page 44. Punch card before starting to knit.

# **COLOUR SEQUENCE**

Use A in feeder 1/A throughout.
Using A + B, K16 rows.

Using A only, K1 row.
Using A + MC, K12 rows.
Using A only, K1 row.
Using A + C, K16 rows.
Using A only, K1 row.
Using A + MC, K12 rows.
Using A only, K1 row.
These 60 rows form the colour sequence.

# SWEATER BACK

With RB in position, set machine for 1x1 rib. Push 112[124] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAL. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K24 rows. Transfer sts to MB.

Insert punchcard and lock on first row. Set machine for patt. Using MT, K1 row. Set RC at 000. Release punchcard. Set carriage for Fair Isle knitting. Using A in feeder 1/A and B in feeder 2/B, K16 rows of patt. Set machine for st st. Using A, K3 rows. Using MC, K6 rows. Using A, K until RC shows 107[133]. Using MC, K6 rows. Using A, K2 rows. Lock punchcard on first row. Set machine for patt. K1 row. Release punchcard. Set carriage for Fair Isle knitting and work in patt foll colour sequence as given. K until RC shows 180[215]. Place a marker on the 23rd[25th] sts at left and right of centre 'O'. Cast off

# FRONT

Work as given for back until RC shows 150[180]. CAR.

# SHAPE NECK

Make a note of row on punchcard and position in colour sequence. Using a length of A, cast off the centre 26 sts. Using nylon cord, K 43[49] sts at left by hand taking Ns down into NWP. Cont on rem 43[49] sts at right for first side

K1 row. Dec 1 st at neck edge on the next 10[12] rows. 33[37] sts. K until RC shows 180[215]. Cast off. Unravel nylon cord over sts at left. Reset punchcard on row previously noted. Reset RC at 150[180].

Complete to correspond with first side reversing shapings.

# **SLEEVES**

With RB in position, set machine for 1x1 rib. Push 56[64] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Using MT-4/MT-4, K24 rows. Transfer sts to MB. Set RC at 000. Using MT, K2 rows. Shape sides by inc 1 st at each

end of next and every foll 6th row, 21[24] times in all. 98[112] sts. K until RC shows 134[140]. Using A, K6 rows. Place a marker on the centre st. Cast off.

# **NECKBAND**

With RB in position, set machine for 1x1 rib. Push 100[120] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. Using A, cast on and K3 tubular rows. Set RC at 000. Using MT-1/MT-1, K5 rows. Using MT-2/MT-2, K5 rows.

Using MT-3/MT-3, K 10[14]

Using MT-2/MT-2, K5 rows. Using MT-1/MT-1, K5 rows. RC shows 30(34).

Transfer sts to MB. Using MT, K1 row. Using WY, K a few rows and release from machine.

# TO MAKE UP

With wrong side facing block pieces out to correct measurements. Cover with a wet cloth and allow to dry. Join shoulder seams. Join neckband seam. Pin in position to right side of garment. Back st

through open loops of last row unravelling WY as you go. Fold cast on edge to inside and slip st in place. Sew in sleeves matching centre marker with shoulder seam. Join side and sleeve seams.

### SKIRT

**BACK AND FRONT ALIKE** 

With RB in position, set machine for 1x1 rib. Push 96[102] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 1x1 rib. CAR. Using MC, cast on and K3 tubular rows. Set RC at 000. Set machine for Fisherman's Rib. Using MT-3/MT-3, K 240[250] rows.

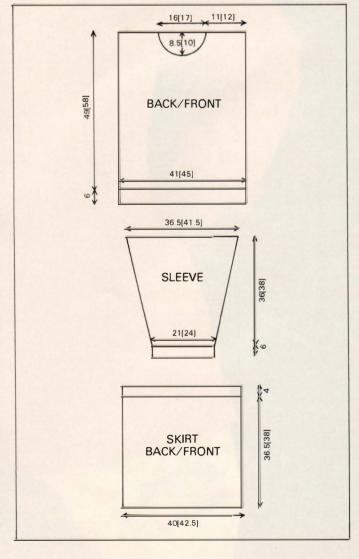
WAISTBAND

Set machine for 1x1 rib. Using MT-2/MT-2, K17 rows. Using MT/MT, K1 row. Using MT-2/MT-2, K17 rows. RC shows 275[285]. Cast off.

# TO MAKE UP

Join side seams. Fold waistband in half to inside and catch in position leaving an opening for elastic. Thread elastic through waistband and secure.

Close opening.



# METRIC CONVERSION CHART

in cm 1 = 2.5 $1\frac{1}{4}$ = 3 $1\frac{1}{2}$ = 4 $1\frac{3}{4}$ = 4.5	in cm 11 = 28 $11\frac{1}{4} = 28.5$ $11\frac{1}{2} = 29$ $11\frac{3}{4} = 30$	in cm 21 = 53.5 $21\frac{1}{4} = 54$ $21\frac{1}{2} = 54.5$ $21\frac{3}{4} = 55$
$ 2 = 5  2\frac{1}{4} = 5.5  2\frac{1}{2} = 6  2\frac{3}{4} = 7 $	$ 12 = 30.5  12\frac{1}{4} = 31  12\frac{1}{2} = 32  12\frac{3}{4} = 32.5 $	$22 = 56$ $22\frac{1}{4} = 56.5$ $22\frac{1}{2} = 57$ $22\frac{3}{4} = 58$
$3 = 7.5$ $3\frac{1}{4} = 8.5$ $3\frac{1}{2} = 9$ $3\frac{3}{4} = 9.5$	$   \begin{array}{r}     13 & = 33 \\     13\frac{1}{4} & = 33.5 \\     13\frac{1}{2} & = 34.5 \\     13\frac{3}{4} & = 35   \end{array} $	$23 = 58.5$ $23\frac{1}{4} = 59$ $23\frac{1}{2} = 59.5$ $23\frac{3}{4} = 60.5$
$4 = 10$ $4\frac{1}{4} = 11$ $4\frac{1}{2} = 11.5$ $4\frac{3}{4} = 12$	$ 14 = 35.5  14\frac{1}{4} = 36  14\frac{1}{2} = 37  14\frac{3}{4} = 37.5 $	$24 = 61$ $24\frac{1}{4} = 61.5$ $24\frac{1}{2} = 62$ $24\frac{3}{4} = 63$
5 = 12.5 $5\frac{1}{4} = 13$ $5\frac{1}{2} = 14$ $5\frac{3}{4} = 14.5$	$ 15 = 38  15\frac{1}{4} = 38.5  15\frac{1}{2} = 39.5  15\frac{3}{4} = 40 $	25 = 63.5 $25\frac{1}{4} = 64$ $25\frac{1}{2} = 65$ $25\frac{3}{4} = 65.5$
$6 = 15$ $6\frac{1}{4} = 16$ $6\frac{1}{2} = 16.5$ $6\frac{3}{4} = 17$	$   \begin{array}{r}     16 &= 40.5 \\     16\frac{1}{4} &= 41.5 \\     16\frac{1}{2} &= 42 \\     16\frac{3}{4} &= 42.5   \end{array} $	$26 = 66$ $26\frac{1}{4} = 66.5$ $26\frac{1}{2} = 67.5$ $26\frac{3}{4} = 68$
$7 = 18$ $7\frac{1}{4} = 18.5$ $7\frac{1}{2} = 19$ $7\frac{3}{4} = 19.5$	$     \begin{array}{rcl}       17 & = 43 \\       17\frac{1}{4} & = 44 \\       17\frac{1}{2} & = 44.5 \\       17\frac{3}{4} & = 45     \end{array} $	$27 = 68.5$ $27\frac{1}{4} = 69$ $27\frac{1}{2} = 70$ $27\frac{3}{4} = 70.5$
$ 8 = 20.5  8\frac{1}{4} = 21  8\frac{1}{2} = 21.5  8\frac{3}{4} = 22 $	18 = 45.5 18½ = 46.5 18½ = 47 18¾ = 47.5	$28 = 71$ $28\frac{1}{4} = 72$ $29\frac{1}{2} = 72.5$ $28\frac{3}{4} = 73$
$9 = 23$ $9\frac{1}{4} = 23.5$ $9\frac{1}{2} = 24$ $9\frac{3}{4} = 25$	$     \begin{array}{rcl}       19 & = 48.5 \\       19\frac{1}{4} & = 49 \\       19\frac{1}{2} & = 49.5 \\       19\frac{3}{4} & = 50     \end{array} $	$29 = 73.5$ $29\frac{1}{4} = 74.5$ $29\frac{1}{2} = 75$ $29\frac{3}{4} = 75.5$
$   \begin{array}{rcl}     10 & = 25.5 \\     10\frac{1}{4} & = 26 \\     10\frac{1}{2} & = 26.5 \\     10\frac{3}{4} & = 27.5   \end{array} $	$ 20 = 51  20\frac{1}{4} = 51.5  20\frac{1}{2} = 52  20\frac{3}{4} = 52.5 $	30 = 76 $30\frac{1}{4} = 77$ $30\frac{1}{2} = 77.5$ $30\frac{3}{4} = 78$

All cm measurements have been adjusted to the nearest 0.5cm.



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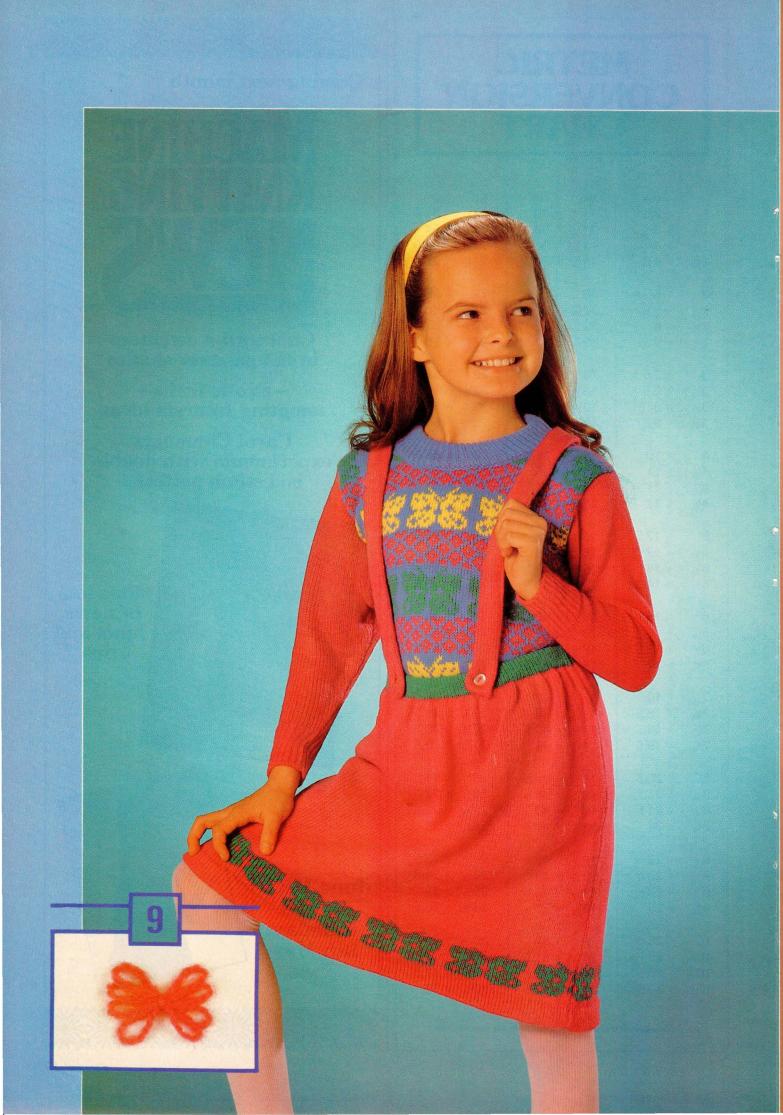


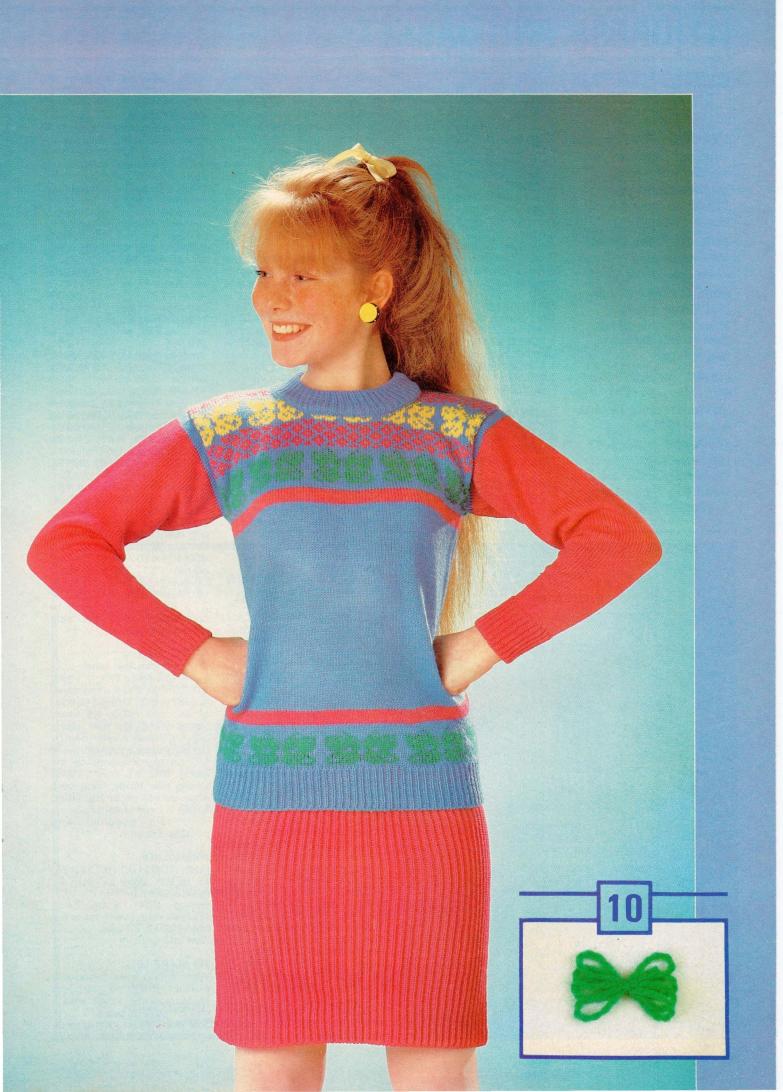
Plus lots of news, hints and tips

June MKN on sale Monday 9th May









# 11 DRESS AND JACKET

# **ILLUSTRATED ON PAGE 53**



MACHINES: These instructions are written for standard gauge machines with ribber

MACHINES WITHOUT RIBBER: Substitute a belt of your own choice

YARN: The Yorkshire Mohair Mill Designer 2/10 Cotton and Ultima Luxurious Kid Mohair

FIBRE CONTENT: Designer 2/10 Cotton is 100% Mercerised Cotton, Ultima Mohair is 80% Kid Mohair, 20% Polyester

COLOUR: We used Designer 2/10 Cotton in Shade 610 (MC) and Ultima Luxurious Kid Mohair in Shade 1390 (C)

STOCKISTS: To obtain this yarn please write to The Yorkshire Mohair Mill. Mohair Mills, Gibson Street, Bradford BD3 9TS

To suit bust 81[86:91:96: 101]cm.

# DRESS

Finished measurement 86[91:96:101:106]cm. Finished hip measurement 91[96:101:106:111]cm. Length 95[96:97:98:99]cm.

### JACKET

Finished measurement 103[108:113:118:124]cm. Length 59[59.5:60.5:61: 621cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures this applies to all sizes.

# **MATERIALS**

The Yorkshire Mohair Mill Designer 2/10 Cotton. 1[1:2:2:2] x 500g cone in MC. Ultima Luxurious Kid Mohair. 1 x 350g cone in C. 1 belt buckle. Fine crochet hook.

# **GARMENT WEIGHS DRESS**

400g for size 86cm. JACKET 220g for size 86cm.

# MAIN TENSION

Using 2 strands of MC, 29 sts and 46 rows to 10cm measured over st st (tension dial approx 6).

24 sts and 35 rows to 10cm measured over stripe patt (tension dial approx 10). Tensions must be matched exactly

before starting garment.

# **ABBREVIATIONS**

See page 19.

### NOTE

Knit side is used as right side for dress and jacket. Measurements given are those of finished garment and should not be used to measure work on the machine.

# STRIPE SEQUENCE FOR **JACKET** 1ST, 3RD AND 5TH SIZES

Using C, K2 rows. Using 2 strands of MC, K2

rows. Using C, K10 rows\*. Rep from \* to \* throughout. 2ND SIZE

Using 2 strands of MC, K1 row. Using C, K10 rows. Using 2 strands of MC, K2 rows\*.

Rep from \* to \* throughout. 4TH SIZE

Using C, K4 rows. Using 2 strands of MC, K2 rows. Using C, K10 rows \*. Rep from \* to \* throughout.

# **DRESS** FRILL (KNIT TWO)

Push 200 Ns to WP. Using 1 strand of MC work a latch tool cast on across all Ns. Set RC at 000. Using 1 strand of MC and MT-4, K72 rows. Using WY, K a few rows and release from machine.

Steam press.

# BACK

Push 132[140:148:154:162] Ns to WP. Using WY, cast on and K a few rows ending CAL. Using 2 strands of MC and MT-1, K8 rows. Using MT+2, K1 row. Using MT-1, K8 rows. Make a hem by hanging loops from first row of MC on to corresponding Ns. Set RC at 000. Using MT, K46 rows. Using WY, K a few rows and release from machine.

Leave Ns in WP. With wrong side facing pick up sts from last row of MC on one frill piece and hang evenly on to Ns, dec 68[60:52:46:38] sts as you go. With wrong side facing rehang back on to Ns. Reset RC at 46. CAR. K until RC shows 178. Dec 1 st at each end of next and every foll 6th row, 4 times. 124[132:140:146:154] sts. K until RC shows 350. SHAPE ARMHOLES

VISA

Cast off 7 sts at beg of next 2 rows. Dec 1 st at each end of next 8 rows. Dec 1 st at each end of every foll alt row, 8

times. 78[86:94:100:108] sts. K until RC shows 400[404: 410:414:418]. CAR.

# SHAPE NECK

Using a length of MC, cast off the centre 24 sts. Using nylon cord, K 27[31:35:38:42] sts at left by hand taking Ns down into NWP. Cont on rem 27[31:35:38:42] sts at right for first side.

Dec 1 st at neck edge on next and every foll alt row, 14 times in all. K until RC shows 428[432:438:442:446]. Cast off rem 13[17:21:24:28] sts. Unravel nylon cord over sts at left. Reset RC at 400(404:410: 414:418]. Complete to correspond with first side reversing shapings.

### FRONT

Work as given for back until RC shows 364[368:374:378:382]. CAR

# SHAPE NECK

Using a length of MC, cast off the centre 18 sts. Using nylon cord K sts at left by hand taking Ns down into NWP. Cont on rem sts at right for first side.

# 1ST[2ND AND 3RD SIZES] ONLY

Keep armhole shaping at right edge correct as set.

# ALL SIZES

Dec 1 st at neck edge on next and every foll alt row, 17 times in all. K until RC shows 400[404:410:414:418]. Cast shows off rem 13[17:21:24:28] sts. Unravel nylon cord over sts at left. Reset RC at 364[368:374: 378:382]. Complete to correspond with first side reversing shapings.

# **NECKBAND**

Join one shoulder seam. Push 125 Ns to WP. \*\* Using WY, cast on and K a few rows. Set RC at 000. Using 2 strands of MC and MT-1, K8 rows. Using MT+2, K1 row. Using MT-1, K8 rows. Make a hem by hanging loops from first row of MC on to corresponding Ns. Using MT, K1 row\*\*. wrong side facing hang neck edge evenly on to Ns. Using MT+2, K1 row. Cast off. Join rem shoulder and neckband seam.

# ARMBAND

Push 104[110:116:122:128]
Ns to WP. Work as given for neckband from \*\* to \*\*. With wrong side facing hang armhole edge evenly on to Ns. Using MT+2, K1 row. Cast off.

# TO MAKE UP

With wrong side facing pin pieces out to correct measurements. Cover with a damp cloth and press. Join side seams. Join frill seam

separately. Work a row of

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double crochet around lower edge of frill.

JACKET (KNITTED SIDEWAYS IN ONE PIECE)

Push 38 Ns to WP at left of machine. Using C[MC:C:C:C] cast on by hand. CAR. Using MT, work in colour sequence as given. K2 rows. Cast on 6 sts at right edge, K2 rows, 7[6:5:4:3] times. Cast on 8 sts at right edge, K2 rows, 7[8:9:10:11] times. 136[138:140:142:144] sts. RC shows 30. K until RC shows 87[90:93:95:105].

SHAPE ARMHOLE

\*\*\* Using a length of MC[C:C:C:C] cast off 56[58:60:62:64] sts at right edge. Leave Ns in WP and work an 'e' wrap cast on over the empty Ns. 136[138:140:142:144] sts\*\*\*. K until RC shows 177[186:195:203:213]. Place a marker at each end of last row. K until RC shows 267[282:297:311:321].

SHAPE ARMHOLE

Work as given from \*\*\* to \*\*\*. K until RC shows 326[344: 362:378:398]. Cast off 8 sts at right edge, K2 rows, 7[8:9:10:11] times. Cast off 6 sts at right edge, K2 rows, 7[6:5:4:3] times. RC shows 354[372:390:406:426]. Cast off rem 38 sts.

# **ARMBANDS**

Push 102[106:110:114:118] Ns to WP. \*\*\*\* Using WY cast on and K a few rows. Set RC at 000. Using 2 strands of MC and MT-1, K8 rows. Using MT- 2, K1 row. Using MT-1, K8 rows. Make a hem by hanging loops from first row of MC on to corresponding Ns. Using MT, K1 row\*\*\*\*.

With wrong side facing hang armhole edge evenly on to Ns. K1 row. Cast off. Join shoulder seams.

# **FRONT BAND**

Push 142[145:148:150:158] Ns to WP. Work as given for armbands from \*\*\*\* to \*\*\*\*. With wrong side facing hang left front edge and half back neck evenly on to Ns. K1 row. Cast off.

Rep over right front edge and rem half of back neck.

### LOWER BAND

Push 132[140:144:150:158] Ns to WP. Work as given for armbands from \*\*\*\* to \*\*\*\*. With wrong side facing hang half of lower edge evenly on to Ns. K1 row. Cast off.

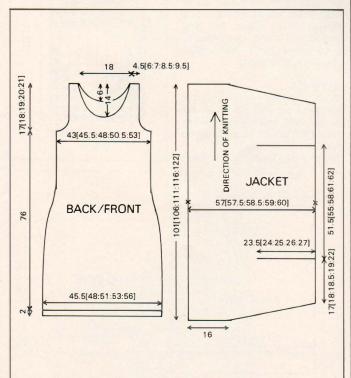
Rep for rem half of lower edge.

### BELT

With RB in position, set machine for full needle rib. Push 10 Ns on MB and corresponding Ns on RB to WP. Using 1 strand of MC, cast on and K3 tubular rows. Using TO/TO, K a length to fit around your waist plus 1cm. Cast off.

# TO MAKE UP

Attach buckle to belt. Make a belt loop at each side of jacket. Join centre seam of bands. Brush outside of garment to restore pile.



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# 12 TRIANGLES

# **ILLUSTRATED ON PAGE 56**

**MACHINES**: These instructions

are written for electronic machines with ribber **MACHINES WITHOUT** RIBBER: See page 19 YARN: Many-a-Mickle Shetland FIBRE CONTENT: 100% Pure New Wool COLOUR: We used Dark Navv (MC), Frost (A) and White (B) STOCKISTS: To obtain this

Many-a-Mickle, Hacking Street,

yarn, please write to

Darwen, Lancs BB3 1AL

### SIZES

To suit chest 96[102:107]cm. Finished measurement 102[109:116]cm. Length 61[65:68]cm Sleeve seam 48.5[52:55]cm. Figures in square brackets [ ] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

Many-a-Mickle Shetland. 1 x 400g cone in MC, A and B.

# **GARMENT WEIGHS**

448g for size 102cm.

### MAIN TENSION

29 sts and 31 rows to 10cm measured over Fair Isle patt (tension dial approx 9). Tension must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

Knit side is used as right side. Measurements given are those of finished garment and should not be used to measure work on the machine.

# **ELECTRONIC PATTERN**

Adapted from a Jones+Brother electronic stitch pattern. Fill in mylar sheet before starting to knit. Pattern variation and selector switches in lower position.

# **COLOUR SEQUENCE**

Use MC in feeder 1/A throughout MC+A, K10 rows.

MC+B, K10 rows.

These 20 rows form the colour sequence and are rep throughout.

With RB in position, set machine for 2x2 rib. Push 148[158:168] Ns on MB and corresponding Ns on RB to WP. Arrange Ns for 2x2 rib. CAR. Using A, cast on and K4 tubular rows. Set RC at 000. Using MT-8/MT-8, K40 rows. Transfer sts to MB. Insert mylar sheet. Set machine for patt. Using MT, K1 row. Set RC at 000. Set carriage for Fair Isle knitting. Foll colour sequence given, work in patt \*. K until RC shows 172[182:192]. Set machine for

Using WY, K a few rows over 52[57:62] sts at right and release from machine. Rep over 52[57:62] sts at left. Using WY, K a few rows over rem 44 sts and release from machine.

# **FRONT**

Work as given for back until RC shows 92[102:112]. CAR. SHAPE NECK

Make a note of row on mylar sheet and position in colour sequence. Using nylon cord, K

74[79:84] sts at left by hand taking Ns down into NWP. Cont on rem 74[79:84] sts at right for first side.

K1 row. Dec 1 st at neck edge, K3 rows. Dec 1 st at neck edge, K4 rows. Rep the last 7 rows until 52[57:62] sts rem. K until RC shows 172[182:192]. Using WY, K a few rows and release from machine.

Unravel nylon cord over sts at left. Reset RC at 92[102:112]. Reset mylar sheet on row previously noted. Complete to correspond with first side, reversing shapings.

# **SLEEVES**

With RB in position, set machine for 2x2 rib. Push 85 Ns on MB and corresponding Ns on RB to WP. Work as given for back from \* to Shape sides by inc 1 st at each end of every foll 3rd row,32[36:38] times. 150[158: 162] sts. K until RC shows 132[142:152]. Place a marker on the centre st. Cast off loosely.

### **NECKBAND**

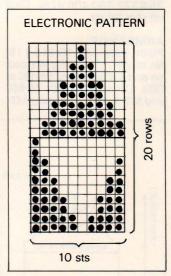
Graft right shoulder seam tog. Push 128 Ns to WP. With wrong side facing, hang right side of front neck edge and sts from back neck edge on to Ns. Using A and MT-4, K1 row. Using MT-6, K10 rows. Using MT-4, K1 row. Using MT-6, K10 rows. Using WY, K a few rows and release from machine.

Push 84 Ns to WP. With wrong side facing, hang rem side of front neck edge on to Ns. Complete to correspond with first side.

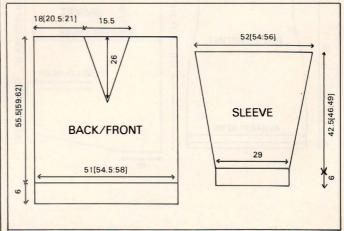
# TO MAKE UP

Wash pieces. Pin out to correct measurements. Allow to dry before pressing.

Graft rem shoulder seam and neckband. Fold neckband in half to inside and catch in position st by st unravelling WY as you go. Sew in sleeves matching centre marker with shoulder seam. Join side and sleeve seams. Give a final









# 13 RELEASE STITCH OVERTOP

# **ILLUSTRATED ON PAGE 57**



**MACHINES:** These instructions are written for Duomatic range of machines

YARN: Amberyarn Rio Chico FIBRE CONTENT: 95%
Courtelle, 5% Polyester
COLOUR: We used Royal (MY)
STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Amberyarn, Greendale Mills, Thackley Old Road, Windhill, Shipley, W. Yorks BD18 10B

# SIZES

To suit bust 82[87:91:96: 101]cm.

Finished measurement 98[104:110:116:121]cm. Length 66[68:70:73:73]cm. Sleeve seam 10.5[12:12:13.5: 13.5]cm.

Figures in square brackets [ ] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

# **MATERIALS**

Amberyarn Rio Chico. 1 x 340g cone in MY.

GARMENT WEIGHS 278g for size 91cm.

# **MAIN TENSION**

Counting back bed Ns only, 40 sts measure 15cm and 40 rows measure 11.5cm over release st patt (stitch size approx 4/4).

Tension must be matched exactly before starting garment.

# **ABBREVIATIONS**

See page 19.

# NOTE

Purl side is used as right side. If you experience difficulty at the beg of release st patt knitting try using black strippers for the first four rows only and then cont using pink/orange strippers to end. Measurements given are those of finished garment and should not be used to measure work on the machine.

# SPECIAL NOTE FOR SHAPING

All st counts refer to back bed sts only.

# CASTING OFF OR DECREASING

Manually release front bed sts and return Ns and pushers to NWP. Then cast off or dec back bed st(s) as required.

# INCREASING

Inc on back bed and set front bed N and pusher to correspond.

# RELEASE STITCH PATTERN

Set locks on  $\underbrace{N}_{BX} \leftarrow K2$  rows.

Set locks on  $\frac{N}{BX}$  K2 rows.

These 4 rows form the patt and are rep throughout.

# **PREPARATION**

Four pieces of st st held on WY are required for sleeve shaping. Prepare these before starting to knit garment.

Push 23[27:27:31:31] Ns on front bed to WP. Black strippers. Set machine for single bed cast on as shown in Diagram 2.

Set locks on GX. Using WY and  $BX \longleftrightarrow$ 

SS 5½, K4 rows. Set locks on GX, K10 rows.

Set machine for single bed cast on again.
Set locks on <u>GX</u>.

BX ↔
Using MY, K4 rows. Se

Using MY, K4 rows. Set locks on GX, K2 rows. Using WY, K a

few rows and release from machine.

Work 3 more pieces to correspond.

# BACK LEFT HALF

Handle down. Pink/orange strippers. Push 10(10:10:20: 20) Ns at left and 56(60:64: 58:62) Ns at right of centre '0' on front bed to WP. 66(70:74: 78:82) Ns. Push corresponding Ns on back bed to WP. \* Arrange pushers as shown in Diagram 1. Set locks on N, SS

4/4. Turn the racking handle one complete turn to the left. Using MY, K1 row. Turn the racking handle one complete turn to the right. Set locks on BX, K7 rows \*. Set locks on N, N

K6 rows. Transfer sts to back

Arrange front bed Ns and pushers as shown in Diagram 3. Set RC at 000. Setting locks as required and using SS 4/4 work in release st patt. K until RC shows 124[128:136:136:136]. Inc 1 st at left edge on back bed, K2 rows, 10 times. 76[80:84:88:92] sts. RC shows 144[148:156:156:156].

Release all front bed sts. Lower front bed. Push 23[27:27:31: 31] Ns at left edge on back bed to WP. With wrong side facing, hang sts from last row of MY of prepared st st piece on to Ns. 99[107:111:119:123] sts. Raise front bed. Arrange corresponding front bed Ns and pushers for patt. Cont in release st patt. Place a marker at left edge. K4 rows, Inc 1 st at left edge on back bed, K4 rows, 4 times. 103[111:115:123:

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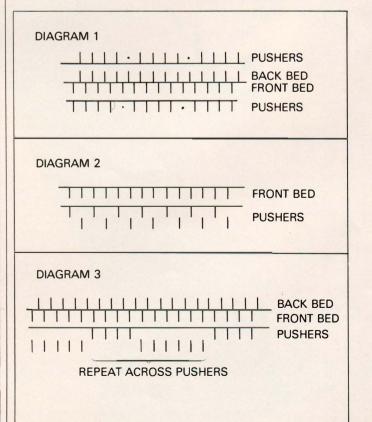
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127] sts. K until RC shows 188[192:200:208:208]. SHAPE NECK

Cast off 17[20:20:20:20] sts at right edge on back bed, K4 rows. Dec 1 st at right edge on back bed, K4 rows, 4 times. 82[87: 91:99:103] sts. K until RC shows 224[232:240:248:248]. Release all front bed sts. Set locks on  $\frac{N}{GX}$  Black strippers,

SS 5½, K2 rows. Cast off. RIGHT HALF

Work as given for left half, reversing needle settings and shapings.

# **FRONT RIGHT HALF**

Work as given for back left half until RC shows 164[168:176: 184:184]

SHAPE NECK

Cast off 12[15:15:15:15] sts at right edge on back bed. K4 rows. Dec 1 st at right edge on back bed, K4 rows, 4 times. Dec 1 st at right edge on back bed, K2 rows, 5 times. 82[87:91: 99:103] sts. K until RC shows 224 [232:240:248:248]. Rlease all front bed sts. Set locks on N. Black strippers,

SS 51/2, K2 rows. Cast off.

# **LEFT HALF**

Work as given for right half, reversing needle settings and shapings. Join centre front and back seams before proceeding.

# FRONT NECKBAND

Handle down. Pink/orange strippers. Push 120[130:130: 130:130] Ns on front bed and corresponding Ns on back bed to WP. Work as given for back left half from \* to \*. Set locks on N, K4 rows. Set locks on CX, SS 51/2/51/2. Black strippers, K8

rows. Using WY, K a few rows and release from machine.

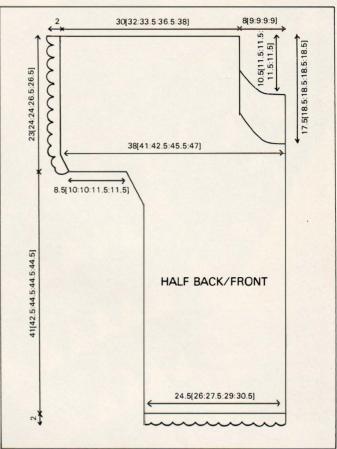
# **BACK NECKBAND**

Handle down. Pink/orange strippers. Push 80(90:90:90: 90] Ns on front bed and corresponding Ns on back bed to WP. Complete to correspond with front neckband.

Enclosing front neck edge between st st sections attach front neckband. Back st through open loops of last row worked in MY.

Attach back neckband in the same way.

Block pieces out to correct measurements and steam. Do not allow iron to touch fabric. Join shoulder seams.



continued on page 58

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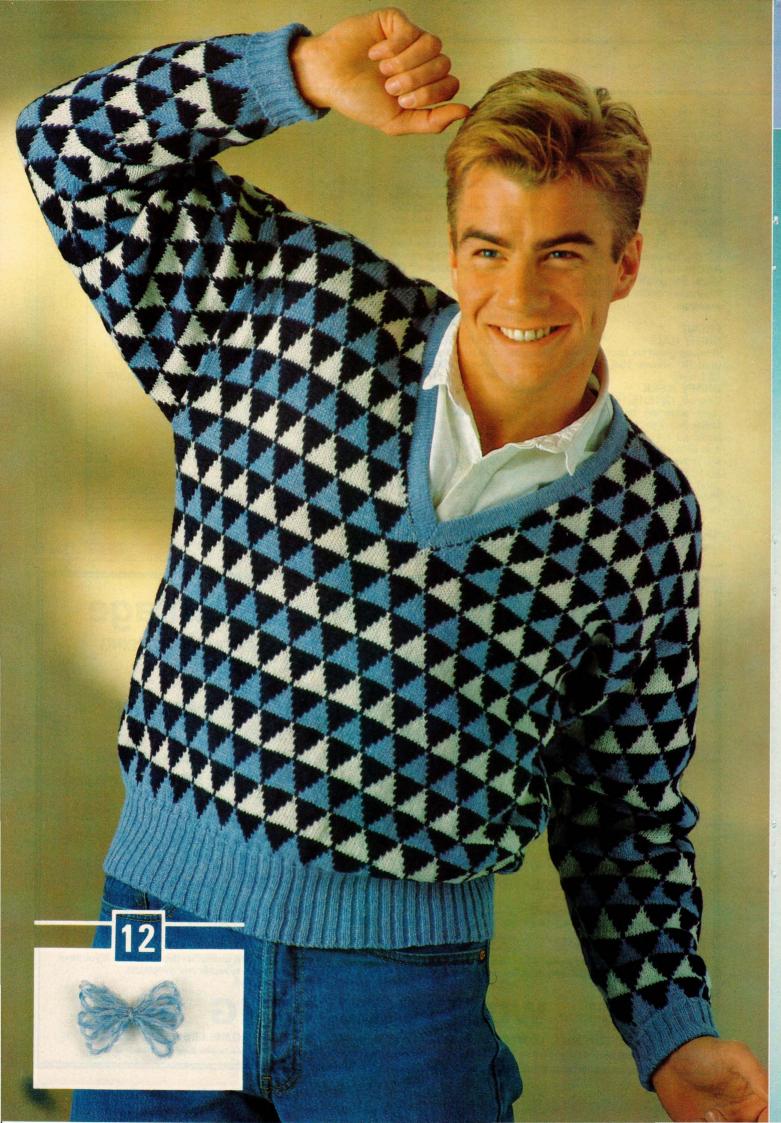
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# 13 RELEASE STITCH OVERTOP

DIAGRAM 4 SHOULDER PLEAT

BACK

BACK

SHOULDER SEAM

SHOULDER SEAM

FOLD

FRONT

LINE OF MACHINE STITCHING

# **SLEEVE BAND**

Handle down. Pink/orange strippers. Push 70[80:80:90:90] Ns on front bed and corresponding Ns on back bed to WP. Work as given for back left half from \* to \*. Set locks on N, K6 rows.

Transfer sts to back bed. Lower front bed. With wrong side facing, hang lower edge of sleeve on to Ns from marker to marker, gathering fullness over the centre 20 Ns. Set locks on  $\frac{N}{GX}$  SS  $5\frac{1}{2}$ . Black strippers.

K1 row. Cast off loosely.

# TO MAKE UP

Make shoulder pleat as folls: Measure 9[9:10:10:11]cm out from original neck edge (not including neck band) along left shoulder seam. Fold along this point using the patt as a guide to keep straight. Work a line of machine or back stitching, 3cm away from fold line and approx 10cm each side of shoulder seam. See Diagram 4.

Repeat for right shoulder. Join side and sleeve seams. Give a final steam, paying special attention to seams and edgings.

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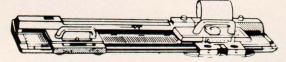
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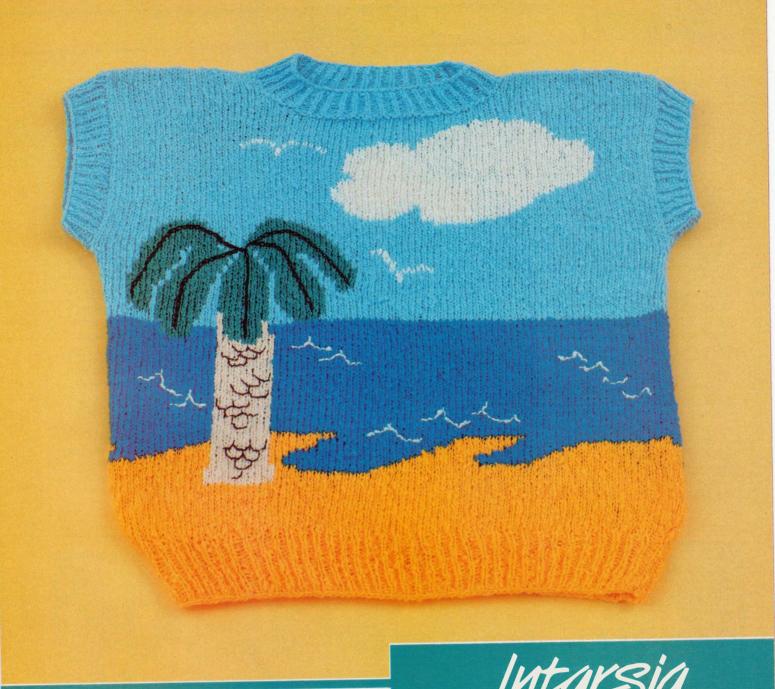


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# Intarsia



# KENI HAS BEACH DREAMS IN

Yes, I know that we're a couple of months away from what we hope is going to be a good summer, but that's why I called this design 'Beach Dreams'.

Knitted in Patons Cotton Top on my chunky machine on tension 3, this simple top took only a short time to knit. The shape itself is just 20 rows of rib, and then a rectangle with neck shaping.

The seagulls were Swiss darned in afterwards, whilst the wave tops were just backstitched. By using embroidery cotton to highlight the tree and deckchair, and finally, the sun's rays chain-stitched in Cotton Top, the picture was completed.

You will see that all I have given you this month is one picture with both the tree and deckchair on. All that is required to work it on to your charting attachment is, draw one picture including the chair and one with the tree.

If you do not have a charting attachment, don't worry. As with all the

drawings I have given you for Intarsia designs (even the polar bears that were in November 1987 issue) all you have to do is trace out the design on to knitters' graph paper — the rectangular sort, you can then work straight from that as a chart. So, if you have a chunky machine, you use the paper with larger rectangles and if you have a standard gauge machine, you use the paper with the finer rectangles.

The actual size of the design printed is quarter scale, if you need to enlarge it you can either pop along to your local photocopy shop and have it enlarged using a pantograph or, as it is an easy outline, just draw it freehand.

Now, answers to some letters I have received:

Mrs C. Jeffs of Leigh-on Sea, Essex wanted to know if there was a graph available for the polar bear cubs.

Well, Mrs Jeffs, I hope that I've answered your query above. Quite often

I do not provide a graph, just a design, but as I explained, it is easy to trace the design on to knitters' rectangular graph paper. That way you'll always have a copy of the design and it is easy to see each square clearly. Have a go.

A.G. Thomas of Tonypandy, Mid Glamorgan, says that when knitting Intarsia, half way across the bed, the carriage seems to drop all the work.

The only reason I can think of for this happening is that when working, the yarn is not sitting in the 'bowl' of the needle. This sometimes happens if the carriage is brought across too fast or, where a new colour has been introduced, the new colour is not 'weighted'. Although I do not 'hang on to my yarn' when taking the carriage across, I do gently hold it just for a moment, whilst the carriage takes up a new colour.



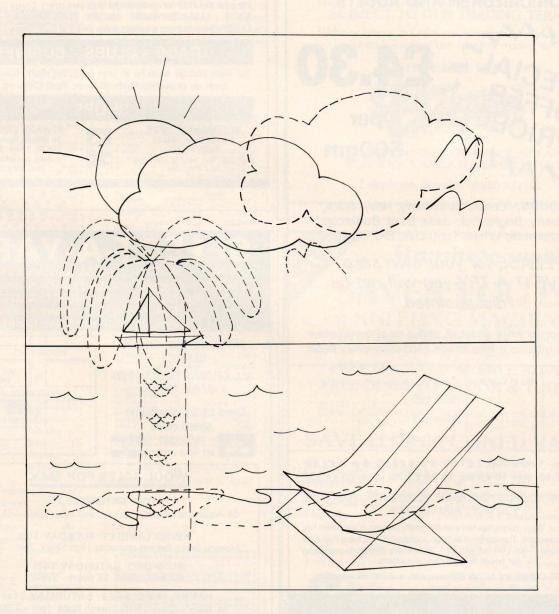
# THIS MONTH'S INTARSIA DESIGN

Both Mrs Toomer of Birmingham and Sue Bramford of Swindon have asked me where they can get more information for mastering Intarsia. If you have not yet read some of the Machine Knitting News back copies, the April, May, June and July 1987 issues

of MKN, when I started writing about Intarsia, each had a chapter to help teach yourself the skill. I too, could never understand my machine instruction booklet, hence the reason I ended up writing the series in the magazine.

Many thanks for your letters, please keep me informed of how you're doing — it's great seeing the finished results at shows.

See you next month — 'Tropical Fruits' is the theme.



Both front and back are superimposed on to one side. To knit, the dotted lines represent one side of the garment and the solid lines the other. Only the 'sea' level in the distance is the same both sides

Chart is 1/4 scale

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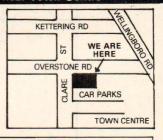
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# sesther Shortt

# UNRAVELS THE MYSTERIES OF THE GREEN RULER

We've all been told countless times of the importance of making a tension square before we knit a garment. Tension is very important if the finished garment is to turn out to be the correct size. However, there is a little more to it than just knitting a little square.

# How to knit a tension square

The pattern usually tells you the exact number of stitches and rows over a given measurement, usually 10cm (4 inches), that the designer obtained when making the original garment. Before you knit your garment, knit a sample at least 10cm square, using the recommended yarn or one which is very similar. Leave the sample of knitting to rest for several hours, and if it needs to be pressed (or washed to remove oil, for example) this must also be done before any measurements are taken.

When the time has elapsed, hold a ruler across the square and place pins precisely 10cm apart, both lengthwise and widthwise, making a 10cm square. If there are too many stitches in the sample, then the tension is too tight, if too few stitches then the tension is too loose. The same applies for the rows. So, in order to get the correct tension use a higher or lower tension on your machine. This may happen because the designer used a different make of machine or perhaps you are using a different yarn.

If you are measuring tension on a chunky machine you may find it easier to use a larger square than 10cm to measure since you will get far less stitches and rows to measure than when using a standard or fine gauge machine.

# The green ruler

To make things easier, **Knitmaster** invented the green ruler, and its friend the blue ruler for chunky machines.

Although these rulers were designed for Knitmaster machines, they can be used on any make of machine.

When introduced to this little green wonder, I asked a lot of questions. The explanation went like this:-

- 1. Cast on 70 stitches.
- 2. Knit 10 rows in main yarn.
- 3. Knit 2 rows in contrast yarn.
- 4. Now, knit 30 rows in pattern and yarns as for pattern.
- Mark with contrast yarn the 21st stitch either side of the centre (position '0') (i.e. you have marked 40 stitches).
- 6. Knit another 30 rows as before (i.e. you have knitted 60 rows in pattern).
- 7. Knit 2 rows in contrast yarn.
- With main yarn, knit 10 rows in main yarn.
- 9. Remove from machine.
- 10. Take a note of the stitch dial number. (You can mark this on your swatch by making the correct number of holes before removing your swatch from the machine) i.e. transfer one stitch on to adjacent needle the correct number of times, bring empty needles into working position and knit several rows.

When the tension swatch has rested, measure it using the green ruler. Use the ruler with the 'S' side up. Place the arrow end of the ruler *inside* the left stitch in contrast yarn. Measure to the *inside* of the right-hand contrast stitch. The number at this point on the ruler indicates how many stitches are required to knit 10cm. The ruler should be used from the left edge, where there is an arrow.

Now, for rows. Use the ruler with the 'R' side up. Place the arrow end of the gauge scale at the *top* of the tension square, just *below* the rows knitted in contrast yarn. Measure to the *inside* of the two contrast rows at the *top* and *bottom* of the swatch. The number on the ruler indicates how many rows are required to knit 10cm.

# Why does the green ruler work?

Then I asked the more difficult question, 'Why does it work?' After an awkward pause, the answer came, 'It's magic'. To me, all knitting is magic, but it still requires explanation. After many hours staring blankly at this little piece of plastic, and many searches through knitting books looking for an explanation, it seemed I would just have to work it out for myself.

It appeared to be based on some sort of ratio formula. That means it is mathematical. It is surprising how many knitters turn off when the words 'maths' or 'arithmetic' are mentioned. But the figures are really not very difficult, and they can explain a lot about knitting and make knitting far easier. So, please do read on.

The green ruler converts centimetres (or inches) to stitches or rows. When we say a tension square of 10cm equals 27 stitches or 39 rows, we are actually converting the measurement of the knitting to either stitches or rows. Therefore, if a piece of knitting measuring 10cm equals 20 stitches, then 1cm equals 2 stitches.

	10cm	=	20 sts
therefore	1cm	=	2 sts
	100cm	=	200 sts
	50cm	-	100 etc

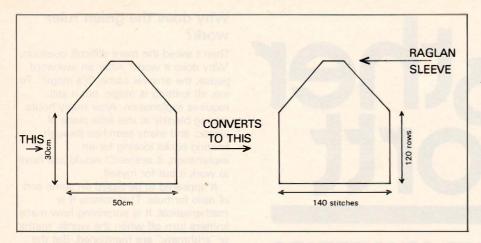
This can be converted into a formula, thus: when you measure 10cm, how many stitches does that give you? e.g. 28 stitches equals 10cm. Now, say you want to knit a sweater which is 50cm wide, then the number of stitches you would cast on is:

So, you would cast on 140 stitches. Similarly, you want to work out the number of rows to knit up the back of the sweater to the armhole. Say this measures 30cm. Your tension square gives you 40 rows to 10cm.

So, going back to our example, this gives us the formula:-

$$\frac{a \times b}{a} = \frac{d}{d}$$
 where

- a = the number of stitches or rows in a tension swatch.
- b = the number of centimetres (or inches) to be converted to stitches or rows.
- c = the number of centimetres (or inches) in a tension swatch (i.e. usually 10cm or 4 inches)
- d = the number of stitches or rows to be knitted.



See, that wasn't difficult was it? Just in case you are not sure, here it is as a diagram (above) working on a tension of 28 stitches and 40 rows to 10cm.

However, how does this formula relate to the green ruler. Well, suffice to say that the green ruler formula is as follows:-

$$\underline{a} \times \underline{b} = d$$
 where

- a = number of rows or stitches on a tension swatch (i.e. 60 rows or 40 stitches).
- b = the number of centimetres on the tension square (i.e. 10cm).
- c = the length of the tension swatch (i.e. variable value because each swatch is a different size).

d = the number of stitch or rows (i.e. as shown on the green ruler).

For example:-

$$\frac{60 \times 10}{10} = 60$$

i.e. make a 60 row tension swatch and measure it. Measurement is 10cm (i.e. 60 rows).

$$\frac{60 \times 10}{20} = 30 \text{ rows}$$

$$\frac{60 \times 10}{30} = 20 \text{ rows}$$
i.e. 
$$\frac{60 \times 10}{\text{variable}} = \frac{10}{\text{variable}} $

As you can see, the formula for the green ruler is similar to the formula for converting centimetres to stitches or rows. If you are really keen and want to know how to derive the green ruler formula, please send a sae to MKN, Green Ruler Copy, Litharne Ltd, PO Box 9, Stratford-upon-Avon, Warks CV37 8RS.

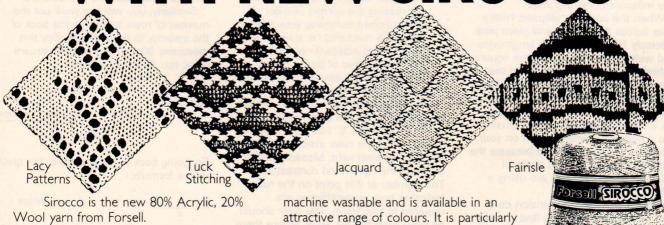
# Using a computer

Once you have overcome the fear of numbers, whole new possibilities open up. You are no longer frightened of such things as Knitradars and computers, both of which make knitting both more interesting and less laborious.

It is possible to use a computer to help with your knitting in many ways. What you must be able to do is translate what you do (sometimes almost by instinct) into a recognisable mathematical formula. We have just done that by converting the use of the green ruler into a formula. Once you have a list of these formulas it is a relatively simple matter to translate this (either yourself or by bribing a friendly computer buff) into computer language. Then the computer gets on with the tedious arithmetic whilst you go play with your knitting machine. I hope you have fun thinking about why you do things in knitting as well as how you do

Happy knitting!

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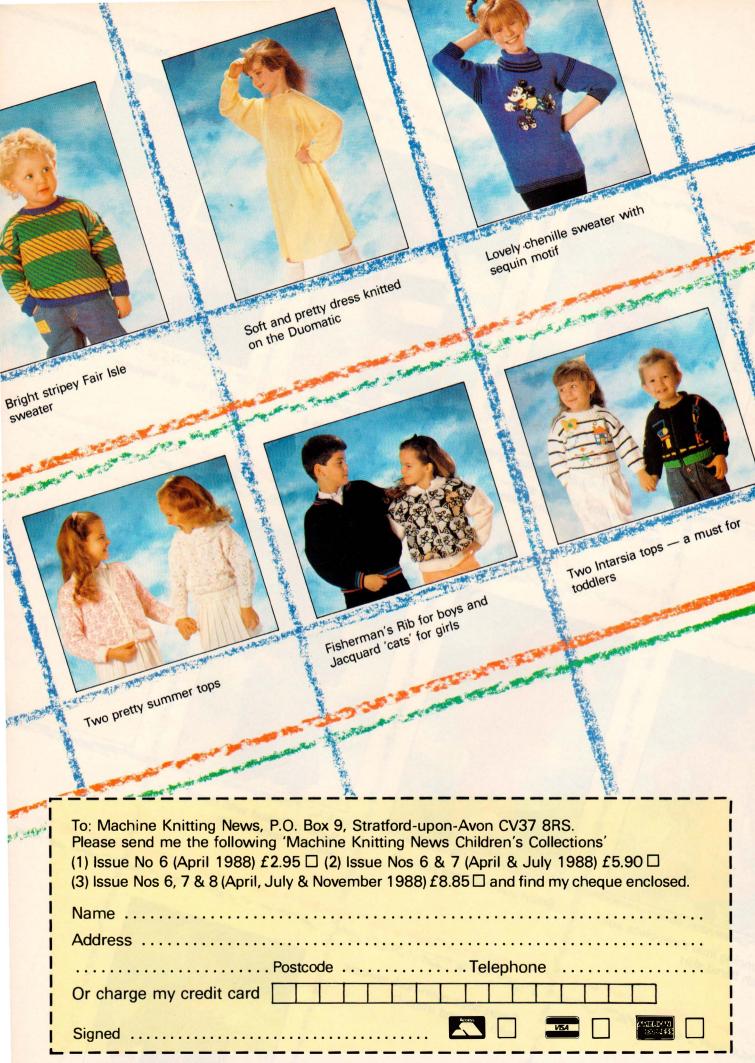
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# Tomorrow's Textiles

Three shades of cotton and weaving are used to create our sixth design from the Manchester Polytechnic students. Note the variation in texture when using both knit and purl side of the fabric.

# **WOVEN TOP AND SKIRT**

# ILLUSTRATED ON PAGE 75

MACHINES: These instructions are written for electronic machines. We used a Jones+

Brother 910 YARN: Rowan 4 ply Soft

Cotton FIBRE CONTENT: 100%

FIBRE CONTENT: 100% Cotton

COLOUR: We used Shade 539 Bermuda (MC), Shade 537 Apple (A) and Shade 530 Polka (B)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Rowan Yarns, Green Lane Mill, Washpit, Holmfirth, Huddersfield, W. Yorks HD7 1RW

# SIZES

To suit bust 81[86:91]cm.
Finished measurement
140[148:156]cm.
Back length 68[68.5:69]cm.
Front length 58[58.5:59]cm.
Sleeve seam 34[36:37]cm.
SKIRT

To suit hip 86[91:96]cm. Finished measurement 90[97: 104]cm.

Length 65.5cm.
Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

# **MATERIALS**

Rowan 4 ply Soft Cotton. 1 x 350g cone in MC, A and B. Waist length of elastic.

GARMENT WEIGHS
Top: 743g for size 91cm.
Skirt: 362g for size 91cm.

MAIN TENSION

MAIN TENSION
36 sts and 35 rows to 10cm measured over st st.
Counting Ns in WP and NWP
27 sts and 39 rows to 10cm measured over weaving patt (tension dial approx 6··).
Tensions must be matched exactly before starting garment.

ABBREVIATIONS See page 19.

### NOTE

Knit side is used as right side for front, back side panel, left back sleeve, right front sleeve, skirt and bands.

Purl side is used as right side for back, front side panel, left front sleeve and right back sleeve.

All st counts refer to working and NWP Ns.

2 strands of yarn are used tog for weaving yarn.

Measurements given are those of finished garment and should not be used to measure work on the machine.

### MYLAR SHEET

Fill in mylar sheet before starting to knit.

# PROGRAMMES PATTERN 1

All variation switches in lower position.
Pattern selector switch in lower position.
First row of patt 1.
Last row of patt 1.
Left end of patt 1.
Right end of patt 60.

# **PATTERN 2**

All variation switches in lower position.
Pattern selector switch in upper position.
First row of patt 10.
Last row of patt 10.
Left end of patt 1.
Right end of patt 33.

# SPECIAL NOTE

Whilst knitting this patt you will need to cast on blocks of sts and then cont in weaving patt. To do this push required Ns as stated to WP. Hang the cast on edge of a piece of waste knitting on to the Ns. Cast on over waste knitting using 'e' wrap method. Hang weights on to waste knitting. Cont in weaving patt. Prepare waste knitting as folls:

Push 26 Ns to WP. Using WY, cast on using 'e' wrap method. Using MT, K30 to 40 rows. Release from machine.

Work 3 more pieces of waste knitting in the same way before commencing patt.

# INCREASING AND DECREASING

When increasing on sleeve panels and decreasing at neck edge, count Ns in WP and NWP. Arrange Ns in correct patt sequence once 2 or 3 rows

have been knitted.

# WEAVING, STOCKING STITCH AND EYELET PATTERN

Front and back side panels and right and left front sleeve panels

Arrange Ns as shown in Diagram 1 for side panels and Diagram 2 for sleeves. Set machine for single motif over Ns as given in patt and weave over these Ns only. At the same time work eyelets over the st st section as folls:

\* K5 rows. Counting from right, transfer the 6th st on to adjacent N. Leave empty N in WP \*

Rep from \* to \* throughout.

### BACK

Push 68[73:78] Ns at left and 68[74:78] Ns at right of centre '0' to WP. Using WY, cast on and K a few rows. Set RC at 000. Using MT and B, K20

rows. Using WY, K a few rows and release from machine.

Push 57[60:62] Ns at left and right of centre 'O' to WP. 114[120:124] Ns. Commencing at left edge and with wrong side facing, pick up loops from last row worked in B and hang on to Ns. This leaves 22[27:32] sts at right held on WY. Do not remove WY. Pick up 114[120: 124] corresponding loops from first row worked in B and hang on to Ns. Do not remove WY. CAL.

Insert mylar sheet and programme machine for patt 1. Using B and MT, K1 row. Set RC at 000. Transfer every 3rd st on to adjacent N as shown in Diagram 3. Return empty Ns to NWP. Set carriage for weaving. Using 2 strands of MC as weaving yarn, work in weaving patt. K until RC shows 91. CAL. Cast on 26 sts at beg of next row as given in special note. K1 row. 140[146:150] sts.



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# **WOVEN TOP AND SKIRT**

Arrange Ns in correct patt sequence. Set RC at 000. K until RC shows 148. CAR.

SHAPE NECK

Using a length of B, cast off 22 sts from Ns 6-27 at right of centre 'O'. Using nylon cord, K 88[91:93] sts at left by hand taking Ns down to NWP. Cont on rem 30[33:35] sts at right for first side.

\* K1 row. Cast off 4 sts at beg of next and every foll alt row, 4 times in all. K1 row. Cast off 2 sts at beg of next and foll alt row. K1 row. Dec 1 st at neck edge on every row, 3 times. RC shows 164. K 0(2:6) rows \*. Cast off rem 7[10:12] sts.

Unravel nylon cord over 88[91: 93] sts at left bringing Ns back to WP. Reset RC at 148. CAL. Work as given from \* to \* but at the same time when RC shows 158[160:164], CAL

SHAPE SHOULDER

\*\* Cast off 6[11:16] sts at beg of next row. K1 row. Cast off 16 sts at beg of next and foll alt row \*\*.

K1 row. RC shows 164[166: 170]. Cast off rem 27[25:22] sts.

# **BACK SIDE PANEL**

Push 11[13:16] Ns at left and 11[14:16] Ns at right of centre

'O' to WP. With wrong side of back facing, pick up loops from first row knitted in B from lower hem and hang on to Ns. Pick up sts from last row knitted in B from lower hem and hang on to corresponding Ns. CAL. Insert mylar sheet and programme machine for patt 2.

1ST AND 2ND SIZES ONLY

**1ST AND 2ND SIZES ONLY** Set machine for single motif over Ns 4-37[2-39] at left of centre '0'.

**3RD SIZE ONLY** 

Set machine for single motif over Ns 42-0-2.

ALL SIZES

Using MC and MT, K1 row. Set RC at 000. Arrange Ns as shown in Diagram 1. Using 2 strands of A for weaving yarn, work in weaving st st and eyelet patt. K91 rows. Cast on 26 sts at beg of next row. K1 row. Arrange these 26 Ns in correct patt sequence. Set RC at 000. Cont in patt. K until RC shows 159[161:163]. CAL. SHAPE SHOULDER

Work as given for back from \*\* to \*\*. RC shows 164[166:170]. Cast off rem 10 sts.

### FRONT

Work as given for back but work only 51 rows instead of 91 before casting on the extra 26 sts.

FRONT SIDE PANEL

Work as given for back side panel *but* work only 51 rows instead of 91 before casting on the extra 26 sts.

# RIGHT BACK SLEEVE

Push 23[26:29] Ns at left and 44[47:50] Ns at right of centre '0' to WP. Using WY, cast on and K a few rows. Set RC at 000. Using MC and MT, K5 rows. Work a row of eyelets by transferring every 5th st on to adjacent N. Leave empty Ns in WP. K10 rows. Work eyelets as before. K5 rows. Using WY, K a few rows and release from machine.

Push 24[26:27] Ns at left and 25[26:28] Ns at right of centre 'O' to WP. Starting at left edge pick up 49[52:55] sts from last row worked in MC and hang on to Ns. This leaves 18[21:24] sts on WY at right. Pick up 49[52:55] loops from first row worked in MC and hang on to corresponding Ns. CAL.

corresponding Ns. CAL.
Insert mylar sheet and programme machine for patt 1. K1 row. Transfer every 3rd st on to adjacent N as shown in Diagram 3. Return empty Ns to NWP. Inc 1 st at left edge. Set RC at 000. Set machine for weaving. Using 2 strands of A

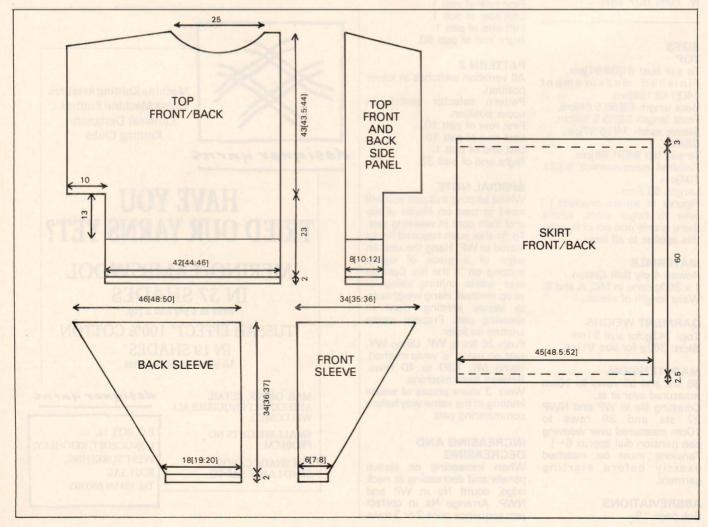
as weaving yarn, work in weaving patt. Shape left edge. \*\*\* Inc 1 st at left edge on every foll alt row, 14 times. Inc 1 st at left edge on next 2 rows. Rep the last 30 rows, twice more. RC shows 90. Inc 1 st at left edge on every foll alt row, 20 times. RC shows 130. Inc 1 st at left edge on every row, 7[9:10] times. K until RC shows 138[142:146] \*\*\*. 125[130:134] sts. Cast off.

# **RIGHT FRONT SLEEVE**

Push 9[10:12] Ns at left and 9[11:12] Ns at right of centre '0' to WP. With wrong side of right back sleeve facing, pick up loops from first row worked in MC from lower hem and hang on to Ns. Pick up sts from last row worked in MC from lower hem and hang on to corresponding Ns. CAL.

Programme machine for patt 2. Set machine for single motif over Ns 100-6[100-4:100-3] at left of centre 'O'. Using MC and MT, K1 row. Set RC at 000. Arrange Ns as shown in Diagram 2. Using 2 strands of MC as weaving yarn, work in weaving, st st and eyelet patt as given.

Inc at left edge as given for right back sleeve from \*\*\* to \*\*\*.



93[98:102] sts. Cast off.

#### LEFT BACK SLEEVE

Work as given for right back sleeve but use B for hem, 2 strands of B for weaving yarn and A for the background yarn.

#### LEFT FRONT SLEEVE

Work as given for right front sleeve but use B as background yarn and 2 strands of B as weaving yarn.

#### SIDE EDGINGS

Push 10 Ns to WP. Using B, cast on using 'e' wrap method. Using MT, knit until work measures approx 74cm. Using WY, K a few rows and release from machine. Work a second edging in the same way.

#### **NECKBAND**

Work as given for side edgings but knit approx 52[55:58]cm before removing on WY.

#### CORDS **RIGHT SLEEVE**

Push 5 Ns to WP. Using A, cast on using 'e' wrap method. Set machine for cord knitting. Using MT, knit until cord is approx 115cm long. Cast off.

#### LEFT SLEEVE

Work as given for right sleeve using MC.

#### RIGHT CUFF

Work as given for right sleeve but knit approx 48cm.

#### LEFT CUFF

Work as given for right cuff but using MC.
FRONT AND BACK

Work as given for right sleeve using B and knitting approx 404cm.

#### TO MAKE UP

With wrong side facing, press all pieces to size. Join side panels to front and back. Join sleeve panels tog. Join shoulder seams.

Measure down approx 40(41.5: 43]cm from shoulder on front and back and mark with contrast yarn. Sew in sleeves between markers. Join side and sleeve seams.

With right sides tog, sew one edge of side edging in place. Adjust length as required. Fold over to wrong side and catch down. Attach neckband in the same way.

Thread cuff cords through eyelets and tie loosely. Thread sleeve, front and back cords looping as shown and secure.

**BACK AND FRONT ALIKE** Push 121[131:141] Ns to WP. Using WY, cast on and K a few

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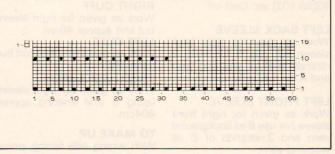
rows ending with CAL. Set RC at 000. Using MT and B, K20 rows. Pick up loops from first row worked in B and hang on to corresponding Ns.

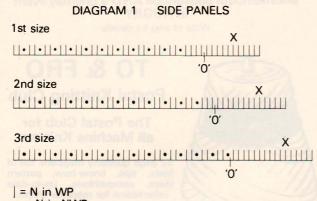
Programme machine for patt 1. K1 row. Set RC at 000. Transfer every 3rd st on to adjacent N as shown in Diagram 3. Return empty Ns to NWP. Set machine for weaving. Using 2 strands of B as weaving yarn, work in weaving patt until RC shows 245. Return intermediate Ns to WP.

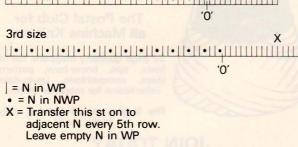
Set machine for st st. K until RC shows 260. Cast off.

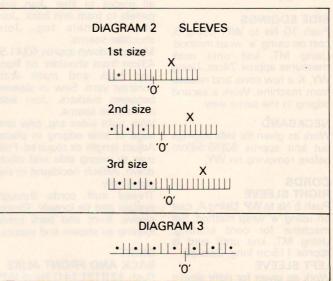
#### TO MAKE UP

With wrong side facing, block pieces to size and press. Join side seams. Turn 15 rows at top to wrong side and catch down leaving an opening for elastic. Insert elastic. Secure ends. Close opening.









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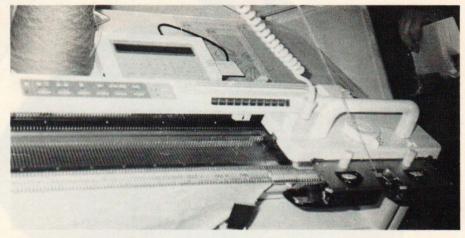
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# OUT & ABOUT

## Keni asks... ELECTRONICS — where's it all leading?



The new Knitmaster 580 carriage and computer control box showing the memory card in place on the right

Like many, the machine knitting industry is introducing more and more sophisticated equipment. For this and next month in Out and About I hope to give you some insight into what is happening and where.

At the beginning of this year, the two major knitting machine manufacturers, Knitmaster and Brother, each had an electronic single bed, standard gauge, knitting machine on the market, alongside Singer with their new 2310. These two articles deal primarily with Knitmaster and Brother, for the speed at which these two companies are introducing new technology will eventually involve all of us, maybe not directly with machines but more likely with accessories.

Last year, Brother launched their very popular 950 closely followed earlier this year by Knitmaster's launch of the KH580, the latest in their range of electronic knitting machines.

The 580 is also a standard gauge machine that will allow a pattern to be worked not only repeating every 60 needles, but over all 200 on the bed. With the aid of a small computer attached to the knitting machine a design can be punched in and stored on a memory card. This memory card has its own battery that will last for approximately five years and each memory card (about the size of a business card) can hold 240,000 needle selections. This system was developed by Kunio Takahashi, who with Ondo San, Head of Knitting Design for Knitmaster, Japan, presented the 580 to the dealers.

The 580 will create some very spectacular designs and once a design has been loaded into the memory card the mylar sheet can be ignored for ever more, although it will still be needed to input an original design each time.

The computer control unit for the 580 shows eight rows on a screen as you work, allowing you to see what will be knitted for the next and following rows. You can 'scroll' up/down and left/right of the pattern that is on the screen, allowing you to check the entire pattern.

Unlike the Brother 950, the 580 does not have any built-in patterns, but by using the memory cards you can create an unlimited number of patterns and store them for future use.

Knitmaster are looking into the idea of selling pre-created memory cards similar to those available with mylar sheets at present. This facility would allow one to start a design library.

The Knitmaster 580 will be launched this month, so look out for it.

With this new machine, Knitmaster are hoping to capture the market once again, and when I met them recently, I was lucky enough to meet Rolf Bartles, who is behind the development of electronic knitting machines for

Empisal/Knitmaster. His story, as he told it to me, takes us back over thirty years to when he started tinkering with knitting machines as a hobby.

Thirty years ago, Rolf's mother wanted to give up going out to work, preferring to work at home, so she bought a knitting machine. Living in Germany, she bought a Passap Duomatic. Rolf was at the time involved in electronics, working for a very successful company.

Once his mother started working on the machine, Rolf looked at it with a view to making the machine faster and more automatic. He then developed his own power-drive (unheard of in those days), which not only operated the machine but also the racking handle.

He adapted a car windscreenwiper motor for the purpose and used a series of relays. In this way he could control the whole machine, right down to selecting needles — all this was to help his mother earn money by knitting — something she never did in the end!

His interest in knitting machines grew from this. He had a good relationship with Passap in Germany and when talking with them they suggested he take out a patent for the electronics on the machine.

It was after this that he saw an Empisal/Knitmaster machine at an exhibition. Rolf's mother joined the company as a knitting machine demonstrator and Rolf learned more about the machines through her. Mrs Bartles told Rolf about the new punchcard knitting machine that had been developed — Rolf himself then met Sim Groom, Chairman of Empisal/Knitmaster, and Rolf told him he thought that what had been developed was perhaps a bit heavy and noisy. Sim was not happy about it himself so Rolf suggested the company go into electronic knitting machines. Sim then managed to persuade Rolf to



Ondo San left - Head of Knitwear Design, Knitmaster, Japan with Kunio Takahashi, the engineer who developed the Knitmaster 580

do work on it and after two years, Rolf had developed a sample machine.

This machine worked on the principle of drawing on an ordinary piece of paper with an ordinary pencil and some 60 patents were taken out and developed to cover this first electronic knitting machine.

At around the same time the Japanese started taking an interest, after all they were by now manufacturing the Empisal/Knitmaster machines. Initially, the Japanese had thought that Rolf's idea of an electronic knitting machine was a dream, but when they first saw it they were impressed.

After having shown the machine to the Japanese, Rolf left it overnight in a safe — the next day it did not work and Rolf discovered the electronics were broken. He knew then that someone had opened the safe during the night to check the machine — this was admitted after a few days!!

The Japanese were looking for new ideas and, as they were and still are, very capable of reproducing an idea, they took Rolf's machine one stage further and developed a sample machine which they then sent to Rolf and he added the electronic bits and pieces.

By 1975 the first single bed electronic machine was ready for the Japanese market and the next year it was launched into the European market — this was the Knitmaster 500, of which many are still going strong.

From this point the Germans and Japanese at Empisal/Knitmaster started working together and from the Knitmaster 500 soon came the 550, then the 560, all improvements on the 500.

Having launched this new type of knitting machine Empisal/Knitmaster soon encountered problems with dealers unable to service this hi-tech machine for there were so many fault systems to test, so Rolf developed the service minitester, thus allowing servicing to be undertaken by dealers.

From the electronic knitting machine, Rolf started thinking of new ideas and way back in 1980 he offered Knitmaster



A design using the new Knitmaster 580 over 200 needles!

a similar item to the Knitradar, except that the shapings were worked out on a computer, unfortunately Knitmaster did not use it, but from that idea Knitmaster and Rolf started work on 'CAPS'.

CAPS is due to be launched by Knitmaster within the near future, already it is on sale in Germany, the letters stand for Computer Aided Pattern System. It enables a pattern to be created, like the 580, over 200 needles and unlimited rows. Using a computer monitor you can see on the screen the design that has been drawn on a mylar sheet. When the mylar sheet is fed into the knitting machine the pattern appears on the screen. The whole pattern can be saved on a disc thus a whole library can be developed. You knit whilst the design is still on the screen, so you can see where you are row by row. This system, plus the connecting interface to the machine should start retailing around the £200 mark.

Although Rolf is the engineer, the system was developed in conjunction

with a knitwear designer thus enabling patterns/designs to be created that are easy to use and acceptable to a knitter. If you have a printer connected to your computer you will also be able to print out the design — mylar sheets will soon be a thing of the past.

For the future, Rolf sees machines being developed as a modular system. You will purchase a basic machine and instead of purchasing a new machine to update it, you will be able to buy an 'add-on' (just as you do with present computer systems) and in this way modernising your knitting machine as you wish.

At present, Rolf finds it a challenge to develop each stage, he feels that the new Knitmaster 580 and CAPS are only the beginning, knitting machines of the future will be simple, but yet highly advanced. According to Rolf, today's machines have too many switches. The new generation of machines aim to make knitting easy for all.

All this development, particularly the new CAPS system, will be beneficial to others not only knitters. The interface cable that will connect to the knitting machine is actually being made near where Rolf lives, by handicapped people. He showed them the prototype cable and he taught a deaf lady how to fit it together and solder it and what she produced was of a very high quality, so they got the contract to produce the cable.

This is the state-of-the-art being introduced by Knitmaster, electronic machines that can develop designs by the aid of a computer and machines that can be added to, piece by piece. To understand how easy it is to use the new 580 you will have to see it demonstrated. When I saw the first prototype in this country I realised its potential for creating a great many designs and when linked with the CAPS system the possibilities extend enormously.

Next month, I will tell you about Brother and their hi-tech thoughts for the future as well as a new British item on the market that has beaten everyone by the speed of development.



From left to right - Mr R. Butler, Managing Director, Knitmaster UK; Rolf Bartles, Knitmaster Electronics Designer, Germany; Walter Hofer, Knitmaster, Germany; and Sim Groom, Chairman, Knitmaster

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## 30 SUMMER TOP

#### **ILLUSTRATED ON PAGE 81**



MACHINES: These instructions were written for Bond machines with extension kit for last three sizes

YARN: Patons Cotton Supersoft DK

FIBRE CONTENT: 62.5%
Cotton, 37.5% Acrylic
COLOUR: We used Shade 2286
(MC) and Shade 2292 (C)
STOCKISTS: If you have any
difficulty in obtaining this yarn,
please write to Patons &
Baldwins Ltd., PO Box 46,
Darlington, Co. Durham
DL1 1YQ

#### SIZES

To suit bust 86[92:97:102]cm. Finished measurement 97[100:107:111]cm. Length 57cm.

Figures in square brackets [] refer to larger sizes; where there is only one set of figures, this applies to all sizes.

#### **MATERIALS**

Patons Cotton Supersoft DK. 4[5:5:6] x 50g balls in MC. 1 x 50g ball in C. Pair of 31/4mm knitting needles.

#### GARMENT WEIGHS 182g for size 86cm.

#### MAIN TENSION

20 sts and 30 rows to 10cm measured over st st using keyplate 2.

Tension must be matched exactly before starting garment.

#### **ABBREVIATIONS**

See page 19.

#### NOTE

Knit side is used as right side. Decoration is worked after garment is completed. Ribs are hand knitted. An extension kit is required for sizes [92:97: 102]cm.

Measurements given are those of finished garment and should not be used to measure work on the machine.

#### **BACK AND FRONT ALIKE**

Push 97[103:107:111] Ns to WP. Using open edge method and WY, cast on and K a few rows ending CAR. Using MC and keyplate 2, K78 rows.

#### SHAPE ARMHOLES

Cast off 6 sts at beg of next 2 rows. Dec 1 st at each end of next and foll alt row, 6 times in all. 73[79:83:87] sts. K16 rows. CAR.

#### SHAPE NECK

Push 28[29:30:31] Ns at left and right to HP. Using WY, K a few rows over centre 17[21:23: 25] sts and remove from machine. CAR.

Bring Ns at left back to WP. \* Using MC, dec 1 st at neck edge on next 10 rows. 18[19:20:21] sts. K1 row. Dec 1 st at neck edge on next and foll 4 alt rows. 13[14:15:16] sts. K18 rows. Cast off \*.

Bring 28[29:30:31] Ns at right back to WP. Work as given for left side from \* to \*.

#### WELTS

Using a 31/4mm knitting needle, pick up 97[103:107:111] sts from first row worked in MC at lower edge of back. Using MC, work in K1, P1 rib for 18 rows. Cast off in rib.

Work front welt to correspond.

#### **NECKBAND**

Join right shoulder seam. With right side of garment facing and using a 31/4mm knitting needle, pick up 35 sts down left side front neck, K across 17[21:23:25] sts from WY at centre front neck, 35 sts up right side front neck and 34

sts from right side back neck, K across 17[21:23:25] sts from WY at centre back neck and pick up 35 sts up left side back neck. 173[181:185:189] sts. \*\* Work 3 rows, K1, P1 rib. Cast off \*\*

#### **ARMBANDS**

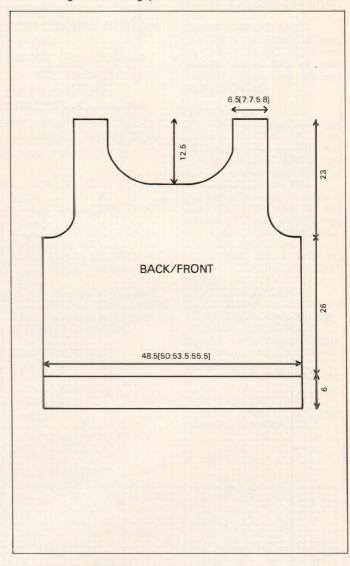
Join rem shoulder and neckband seam.

Using a 31/4mm knitting needle and with right side facing, pick

up 127 sts evenly around armhole edge. Work as given for neckband from \*\* to \*\*. Work second armband to correspond.

#### TO MAKE UP

Using C, work French knots on front only as given in diagram adding extra knots at sides where necessary for larger sizes. Join side and armband seams.



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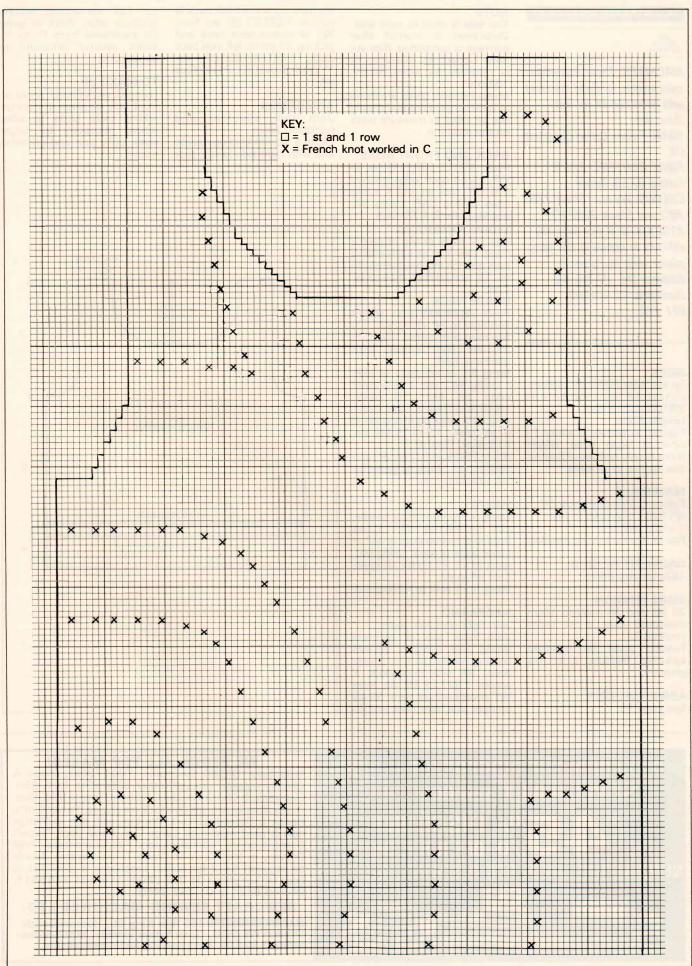
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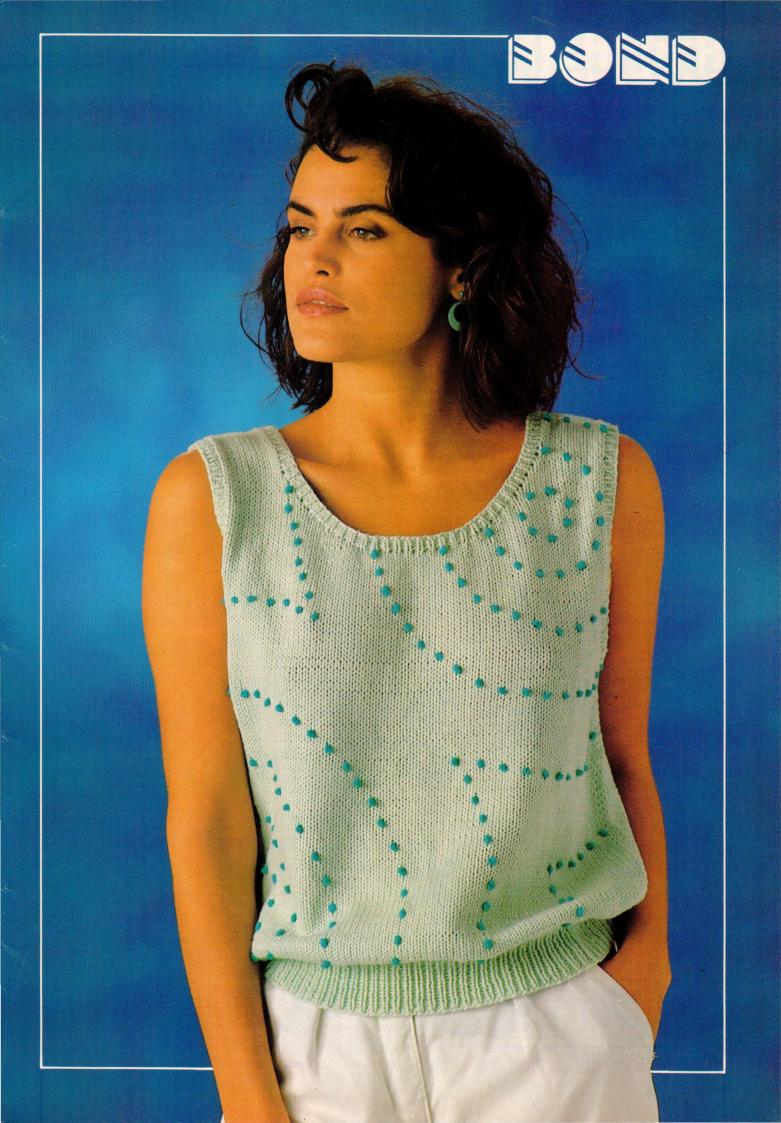
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## SUMMER TOP





## GEORGE LE WARRÉ

## EXPLAINS HOW TO KNIT DECORATIVE PATTERNS USING A GEOMETRIC CARD

This sounds impossible, but in fact it is very easy when you know how.

Why bother?

Have you ever wanted to increase the width of a pattern on a geometric card? The tutors, shops etc will tell you that this is not possible on the 2310 or 2331. Not so. It is entirely possible, and in fact very easy.

The design will be increased in width always by three times. The length is as variable as any decorative design.

So how is it done?

Again, it is a case of making the machine do something it doesn't know that it is capable of. Now we have persuaded our machine before, so this is nothing new.

We have to fool the box into thinking that it has a decorative card and not a geometric one in. To do this, we must remove the information from the card relating to geometric designs.

The information is all contained in one area being the two columns of

black and white oblongs on the right of the card. This appears destructive but the information is easily restored.

Take Card 5 from the basic set, and cut off the right hand side, taking care to make a straight cut up the side of the heavy black line. DO NOT CUT RIGHT TO THE TOP. Leave the hole at the top of the card, and it will then be the same shape as a decorative card. Put the cut section in a safe place.

The card will now be read by the box as a decorative one. The grid lines are too thin for the scanners to read, so will not be a problem.

You will need to make adjustments on the adjustment dial as described in the article in March MKN.

With the dial on 1.5 the design will be three times as wide, and half as tall again. Remember, any design will always be three times the width of the geometric version. This is because it is now expanded from a 60 stitch width design to a 180 width design

 $(180 \div 60 = 3).$ 

To find the start position on one of these cards, place the line at the top of the sixth square within the design opposite the reference mark, and knit. The finish position is the line at the top of the eighth square above the end of the design.

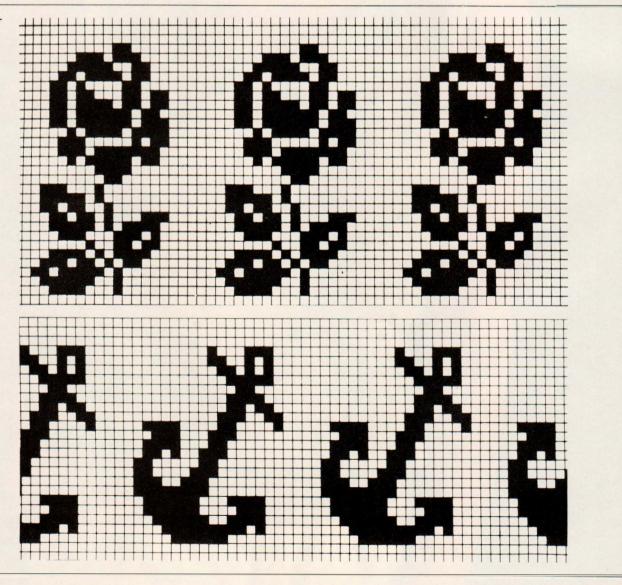
When you wish to use the card on geometric again, attach the cut-off portion in exactly its old position with clear adhesive tape.

Alternatively, you may place a blank card over your original before cutting and rub down the squares over the design, then cut out a new card. This does take more time but is less destructive, and you can build up a whole card of geo's on decorative in this way, which will in fact, save you time later.

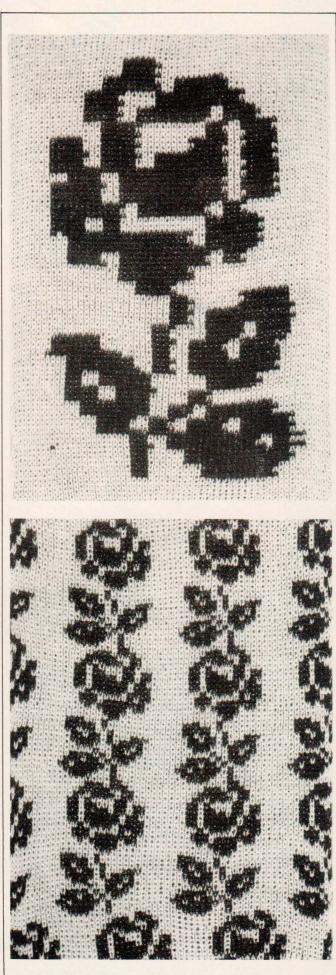
Until next time

Good

A CUT CARD



















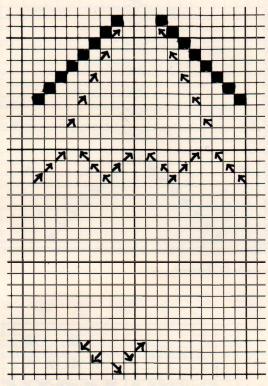
## DESIGN LINE

#### Suggestions and ideas to develop your design skills

An unusual way to add that extra special touch to your garments — no matter which machine you are using. No punchcard, no automatic patterning nor ribber is required. Simply follow the chart line by line transferring stitches in the direction shown. The result — a delicate ladder lace motif.

We used Argyll 4 ply laser for our samples but this could work equally well using a poodle or textured yarn. Add this technique to your next mohair sweater. A contrast piece of fabric carefully attached behind the motif will give a new dimension to the design. The completed motif could also be decorated with beads or sequins or even a touch of lurex.

I think you'll agree — a stitch idea to try, master and develop.



Sample B Fan

Sample A Umbrella

#### INSTRUCTIONS

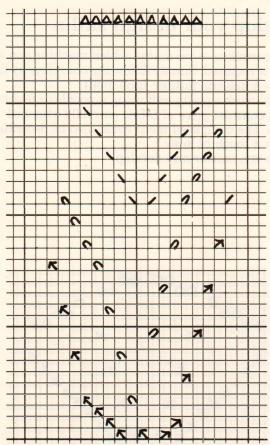
- $\square$  Square = 1 st and 1 row.
- = Transfer st on to adjacent N at left. Leave empty N in WP.
- > = Transfer st on to adjacent N at right. Leave empty N in WP.
- > = Transfer st on to adjacent N at right. Return empty N to NWP.
- = Transfer st on to adjacent N at left. Return empty N to NWP.
- O = Bring N forward to WP. K1 row. Release the loop of yarn from N.
- Using the single transfer tool, make a twist in this loop and replace on to N to form 'e' wrap. Bring
- N to UWP allowing the 'e' wrap to go behind latch.

  O = Work as given for 'O' then using latch tool pick up the corresponding st held on WY below, latch
- up the ladder (making sure to pick up every bar of the ladder) and place st on to N.
- = Remove this st on to a length of WY. Return empty N to NWP.
- $\times$  = Using 2 x single transfer tool, cable these 2 sts.
- = Bring N forward to WP so it will knit on the foll row.
- ? = Pick up the heel of this st and place on to adjacent empty N to the right.
- > = Pick up the heel of this st and place on to adjacent empty N to the left.
- △△△ = Bring Ns forward to WP. K1 row. Release the loop of yarn from Ns. Holding loop down in front of work with finger, put single transfer tool behind ladder bars i.e. between work and needle bed. Bring the tool out towards you at start of shaping. Hook tool through the loop held with finger, lift up at back of work and hang on to the centre N of group. 'e' wrap over the rem Ns as given for 'O'. MAKING 2 STITCHES FROM 1

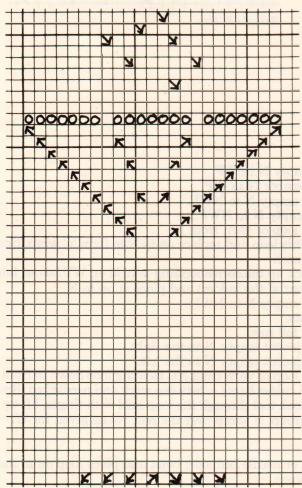
Move existing st one N to the right.

Place single transfer tool into st from the back or needle bed side; twist and place loop on to the 2nd N at left, thus leaving an empty N in between.

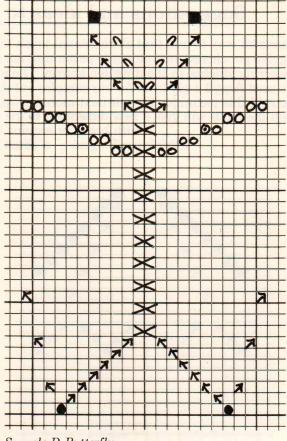
## DESIGN LINE



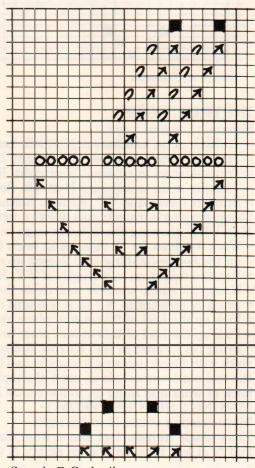
Sample C Tulip



Sample E Champagne



Sample D Butterfly



Sample F Cocktail

## COMPETITION

The name Amber spells quality yarn, used by machine knitters all over the world. There are a number of different ranges, available in various qualities and textures to suit every kind of knitting. Our winners will have a wealth of colour choice, too, from delicate pastels to bright paintbox shades and exotic mixtures. First prizewinner can select yarn to the value of £150; second and third prizewinners yarn to the value of £75 and £50, respectively.

#### HOW TO ENTER

Hidden in the wordsearch puzzle are eight different qualities of yarn. They may be spelt out in any direction including diagonally, and we have circled CASHMILON to start you off.

Write the eight yarns on a postcard, add your name and address and post your entry to: AMBERYARNS COMPETITION, Machine Knitting News, P.O. Box 9, Stratford-upon-Avon CV37 8RS, to arrive not later than Friday, 27th May 1988.

Prizes will be awarded to senders of the first three correct entries checked after the closing date; in the order they are drawn. No entrant may win more than one prize.

Prizes must be accepted as offered. Entries not complying with the rules and instructions exactly will be disqualified. The competition is open to all readers resident in Great Britain, Northern Ireland, Channel Islands and Isle of Man, except employees (and their families) of Litharne Ltd or Amber U.K.

Decisions of the judges and the Editor in all matters affecting the competition will be final. No correspondence can be entered into. Winners will be notified and the result published in a future issue of Machine Knitting News.

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£75 worth of Amberyarn

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£50 worth of Amberyarn





AMBERYARN

## HAZEL RATCLIFFE

## COSTING FOR PROFITABLE MACHINE KNITTING

#### Commonsense costings

Sorting out the money is probably the most difficult part of working for yourself. First of all it is usually new and unexplored territory, secondly there are no written rules or guidelines for us to follow, and thirdly we are usually too busy earning the money to have time to sort it all out on paper as we go along.

#### **Important**

The key word in the last paragraph was 'paper'. Getting it down on paper is half the battle and the next word is 'commonsense'. Add to those two a bit of organisation and a bit of psychology, and you have it in the bag.

#### Costings and charges

It is easier to say how *not* to cost a garment than to say how you should cost one. First of all, it does not work to cost it by the hour, nor does it work to cost it by the materials.

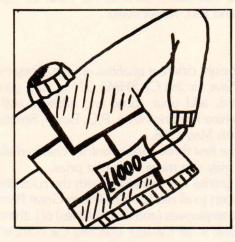
For example, I remember when I first looked at knitting machines, a company offered me 6d an ounce to knit babywear if I wished to purchase my machine by working for them as opposed to paying cash. The yarn was 2ply and the babywear was hand-tooled lace work, as you can imagine I would have been a long time paying for that machine... I declined the offer.

That particular offer was rather extreme but the same applies. If you were to charge by the ounce you would be doing quite nicely on the chunky knits but woe betide you when someone wanted a suit in 2ply. Costing by the hour does not work either because it can take as long to knit a baby coat as it would to knit a plain sweater in a 40" chest. It just would not form any sensible scale of charges so you need to consider each garment individually.

#### Much has been said...

in the past and no doubt will be said in the future about costing your knitwear and I have read about how costing should include light and heat, stationery, wear and tear on your machine, time, materials, and a percentage for anything else you might have forgotten — contingencies. Well, I tried this and a school jumper turned out to be about £43.50. It isn't sensible is it? But having made the point, what should we be charging and how do we arrive at the right price?

Well, the price of a garment is what



the market will stand. That is to say, what someone is prepared to pay for an article. If you play your cards right you will gain back on the proverbial swings what you lose on the roundabouts.

Here's how. Let's take that school jumper. A size 30" V' neck sweater in 4 ply acrylic. The yarn will have cost you probably about £4.95 for a cone though you would not have used the whole cone (but you had to buy it, so we count the whole cone).

In the local supermarket the same jumper is £5.95. Now the aim for you is not to be cheaper than the supermarket because your garments are better than theirs, but you do need to be competitive so, if you were to charge say £7.50 that would probably be acceptable.

#### The critics

will say that you have not costed in sufficient time etc. The fact remains that you started out with £5 and ended up with £7.50 and in my books when you need money, that represents £2.50 profit, I don't care what the critics say.

Now... that is the swing, now comes the roundabout. You knitted the school sweater for Johnny, his Mum was delighted with it and now she wants one for her husband, in the golf club colours, and she can't get one anywhere.

You are prepared to knit one exactly to her specifications for just £25, she will be delighted, and furthermore the rest of the golf club will also want one. The yarn will still probably only cost you £5 or £6 and it won't take much longer to knit than Johnny's school size 30".

#### Regular items

such as school jumpers or plain classic sweaters and cardigans can be worked out and a set scale arrived at and although the profit margin may not be great, as long as it *is* profit it all helps to get you and your work known and those regular customers will keep the wolf from the door until the really worthwhile orders float into your net.

KEEP A RECORD of everything you knit and what you charge because if you are ever caught charging two different prices for the same garment you can bet your last ounce of 4 ply that you will be found out and be tackled about it.

#### Beware of friends...

This sounds awful but you can get yourself into a lot of hot water if you are not careful. I used to knit for an elderly friend and I always charged her just £2 to keep her happy and never looked upon it as part of my business. One day some distant relatives arrived in force to visit her. Upon being told that her lovely woollies were just £2 each from the lady next door they wasted no time at all in putting in a bulk order... worm your way out of that one!!!



My theory is that if you are charging sensibly for your business orders then you can afford to knit for your friends for nothing provided that they are not in a hurry. The hardest part is deciding whether the person making the request is really a friend or not and only you can decide that.

#### You and your worth

It is true to say that people value us according to how we value ourselves and I think that machine knitters, along with probably most craft people, do not place sufficient value on their own work and expertise, indeed we are modest to a fault.



## **NEW FOR YOU**

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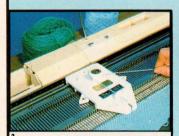


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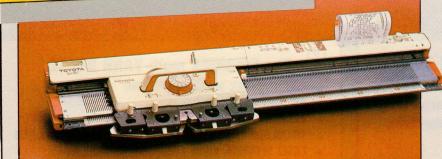
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the machine it will automatically do away with all those bothersome calculations to obtain a well fitted garment. The exciting plaiting feeder will produce different colours on front and reverse sides. You will soon be knitting beautiful garments and will be tempted to have a go at home furnishings i.e. curtains, or woven cushions etc. (yes, weaving too!) All easily coped with on the 950. Should you then wish to add circular knitting, pleating and various ribs the optional KR506 attachment will be a boon because it also has the unique SIMULKNIT built in so as to produce loopless fairisle for reversible fabrics. The Toyota 950 is not just another knitting machine it is a whole truly exciting new world for you.

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It is also true to say that charging too little can be as damaging to your business image as charging too much. A survey on the sale of cheese in a supermarket revealed that when three identical cheeses were marked with three different prices, the majority of the shoppers chose the middle price, a few chose the most expensive and even less chose the cheapest.

I was once asked on the telephone if I could provide the name of two reliable machine knitters for some work to be done for a television programme. I gave two names and the lady concerned promised to let me know which of the two she chose. A little later in the day she kept her promise and rang me back, The two knitters had quoted quite different prices and our friend had chosen the most expensive one because, as she said, 'you get what you pay for'. I know for a fact that both of the ladies in question were equally good knitters, one just had more confidence than the other.

#### A working compromise

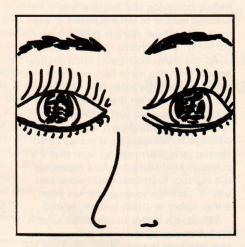
We can all sell other people's work better than we can sell our own so if you know that you are hopeless then get a trusted friend to help you with your costings and you will find that it helps no end.

#### Write it down

I mentioned earlier about paper. You do need to write your prices down especially on the regular items. It is always useful when someone asks you how much something will cost if you have a list to refer to. It looks professional and it saves you from quoting out of the blue and getting it wrong.

If you are caught on the hop and someone asks you how much you would charge for a lurex evening gown then play for time or you will surely get it wrong. I know a wit who says: 'quote a price and watch their eyes — if they wince say "less discount", if they look pleased say "plus VAT", but joking apart it is difficult and the secret is careful thinking and then getting it down on paper.

There is a lot of psychology in pricing. Goodness only knows why £1.99 goes down better than £2 but it does. Even if the customer gives you £2 and says 'don't bother about the penny change', they still think they are getting a better deal than if the price tag says a round £2.



#### Actually getting the money

This really is getting to the tricky bit. I wish I had a pound for every time I had backed down and reduced my price. I am sure that many of you will know the feeling. The jumper is knitted, all neatly bagged up and you are dropping it in to the customer on your way to the knitting club. You knock at the door and the customer opens it with two small children round her legs. Having told yourself all the way up her garden path that the sweater is worth £10 of anybody's money you beat a hasty retreat clutching a fiver in your hot little hand... does it sound familiar?

I remember knitting three identical sweaters for a Mum, Dad and son and upon delivering them was asked if I could hang on a couple of weeks because things were a bit tight... I did hang on and finally got my money three weeks after they returned from their skiing trip. The sweaters looked lovely in the holiday photographs...

#### What to do

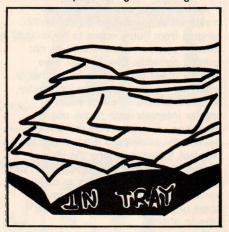
It is simple. Write out your bill in the safety of your own home, put the bill in the bag with the garment and seal the bag. When you deliver or when the item is collected and the customer asks how much she or he owes you, say 'the bill is in the bag, do you want to pay by cheque or cash?"

If they don't ask how much they owe you, say 'if you would like to settle with me now the bill is in the bag'. Use a duplicate invoice book so that you have a record

#### Other paper work

I know that keeping accounts seems like a bind but if you do it right from the start and do it regularly, say once a

week, it will never get badly behind and it will very quickly become a habit that is no trouble to you. Likewise, get into the habit of keeping receipts. An accountant friend of mine told me that one of his clients who runs a very successful carpentry business has an old coat hanging behind his workshop door and he puts all incoming receipts in one pocket and all outgoings in the other and it all works very well. This is perhaps a little too simple but the principle is right. One book with an outgoing column and an incoming column and you can't go far wrong.



#### Peace of mind

The services, once a year, of a friendly accountant are worth the expense for the peace of mind and certainly as your business expands, which it will... then you will need an accountant.

Try to find someone on personal recommendation if possible because they do vary tremendously both in their expertise and their charges. The most important thing is that it is someone who understands small businesses and someone to whom you can relate. You need to be able to talk to your accountant with ease. If you find you can't, it is probably his fault, not yours; change him.

#### **Next time**

Next issue we are going to look at what happens when your business starts to expand, how to make your business 'special' and what are the next

If you have any questions or you think we can help in any way please drop us a line and we will do our best.

## CAROL CHAMBERS

#### GET THE BEST FROM YOUR RIBBER -

The ribbing attachment can cope with a wide variety of yarn types and thickness, but to take full advantage of its potential a few special techniques can be helpful. Obviously, there are many different ways of doing the same thing, so I've included my favourite tips and solutions to common problems.

Wavy edged cast-ons are a common complaint. Before looking at alternative methods of casting on, double check that your ribber is set as close to the main bed as possible. Slacken the top joining screws and push the top of the needle plate by the sinkers towards the main bed so that the ribber stops are firmly against the main bed. Re-tighten the screws keeping a slightly pressure on, to ensure that a gap doesn't develop between the ribber stops and main bed.

An incorrectly spaced ribber can create various problems for the knitter, ranging from fluted edges to build up of yarn on some needles which are not knitting correctly. Every time I have taken a ribber course, I've found that at least half my students have incorrectly adjusted ribbers, so check yours at regular intervals (with heavy use, vibrations can slacken off the screws fractionally, allowing a gradual gap to develop). When adjusting the ribber, always ensure that the gap between the two beds is even from edge to edge — a variation along the work can result in some undesirable stitch pattern and tension effects!

There are a couple of ways to decrease the stretch effect of the comb and weights on the starting edge. On a 1x1 rib, work the zig-zag row and hang the comb and weights. Disconnect the carriages and using the ribber carriage only (set to knit), run it across and back over the zig-zag row — all the stitches will drop from the ribber. Rejoin the carriages and work a further zig-zag row (leaving comb and weights in original position on starting row), then continue with your cast-on as usual.

To eliminate build up of knitting on the main bed side, I usually set the main bed to 'slip' on the row after (second) zig-zag whilst the ribber knits and then knit on the next row whilst ribber slips (see Diagram 1).

Continue with your rib knitting in the usual way, the work is still weighted and there should be no problems. On removal from the machine, the start of your rib will have a lot of loops (see Sample A). Pull these out from the opposite end to the starting thread (see Diagram 2) — the work will not come apart!

In order to straighten the bottom stitches and pull the rib together more, before removing the end completely through the work, grasp the end and pull up loops, thus gathering the bottom edge (see Sample B), then give the work a vertical tug. This gives a neat start.

If, however, you forget to do this before removing the loops, a fine knitting needle or wire inserted at the very edge whilst work is pulled vertically, will achieve the same effect.

As the ribber (normally) knits slightly tighter than the main bed, you may prefer to drop the main bed stitches instead of those on the ribber. This is equally successful, just remember to remove the knitting yarn from the main carriage before passing it across (first) zig-zag, and then making sure that it's correctly re-threaded before repeating the zig-zag. Knitmaster machines can use 'P' carriage to drop stitches from either ribber or main bed as desired.

Ideally, it's better to minimise stretch on both sides of the work (although the one row way is more than adequate for most 3 - 4 ply or thicker yarns).

Cast on for rib required in waste yarn (preferably approximately the same thickness as main yarn). Work cast on sequence in usual way and knit a few rows. Break off waste and knit one row with nylon cord (with fine yarns, or double jersey fabrics where cord may be too thick, use a slippy fine yarn or even strong sewing-machine cotton - like buttonhole thread). Keeping comb and weights in original position, using main yarn, commence cast on sequence again (zig-zag then circular) and knit rib desired. When work is removed from machine, give lengthwise tug to close up rib and then strip off waste by pulling cord out. (Sample C shows work before waste removed.)

To firm up the ribbing slightly more, use the fine knit bar or wire as provided with your machine. This fits either along the main needle bed, over its edge, or slips in the gap between the sinker gates and needle bed. The effect is to decrease space between the main bed needles and bed, resulting in a tighter stitch on the main bed (whose tensions, as we shall discuss later, give slightly larger stitches than for the same setting on the ribber).

With fine yarns, such as 2 ply or two strands of 2/30s, a 1x1 rib may not be neat or tight enough to suit the rest of the work. In this case a 2x2 rib may work well. Use the fine knit bar, and to narrow the zig-zag further, push ribber needles to upper working position (the position where open latches line up with sinker gates). Note that to work a 2x2 rib, you start with 'H' setting, arranging needles as in Diagram 3.

Once zig-zag and circular rows have been done, to arrange needles for rib required, twist swing lever to right and change to 'P' setting. Needles will be arranged as Diagram 3a. The end stitch at right will be on the ribber, to keep the needle rule of first and last stitches on main bed, transfer the odd stitch on to main bed, then adjust tension and continue knitting.

For a 2x2 rib with a finer appearance work on the 'H' setting throughout. For the cast on, needles are arranged as Diagram 4 and once zig-zag and circular rows are completed, the swing lever is twisted so that needles are arranged as Diagram 4a. As you can see, this rib will give more stitches on the welts than on the main work, if main knitting is to be done on single bed. However, if single bed work is to be done in tuck or any stitch which will spread the work a little, then the welt may be satisfactory - try a swatch to see the effect before using it on the garment. The resultant stitches in the welt are very neat and fine.

Comparisons between the two ribs are shown in Sample D (2x2 first method) and E (2x2 second method), both using two strands of 2/30s yarn.

If further elasticity is required on these or any welt, then you can add knit-in elastic or shirring elastic to the work. Shirring elastic is now available in a wide range of colours, so you should find one to match your yarn. I don't find it necessary to use it on every row, two rows every fourth or sixth row gives an even, firm result (once the ends have been cut and securely tied). Sample F shows the result (contrast elastic was used for illustration purposes). Knit-in elastic is very much finer and is transparent either in clear or smoke shades to blend in with most yarns. This can be used throughout the welt or at regular intervals and is more appropriate than shirring elastic for yarns finer than

I've also used shirring elastic on a double ribbed neckband once the garment was made. Threading it through the inside neck at regular intervals and drawing up slightly, a boat-necked acrylic kept its shape through several years of wash 'n' wear.

As previously mentioned, there is a difference between ribber and main bed tensions and although for most welt purposes the difference can be ignored (i.e. tension dial usually set to same number).

For circular knitting and some stitch patterns it can be useful for both beds to produce the same stitch size. To work out the individual difference on your machine, push 60 needles on main bed and ribber ('H' setting) to working position. Do zig-zag and work two circular rows. Adjust tension dial and knit two rows double jersey, then reset carriages for circular work, with both tension dials at same setting. Knit 40

#### OFF TO A GOOD START

rows (will be a 'true' growth of 20 rows) and then transfer stitches from ribber to main bed. Knit 30 rows stocking stitch and then release from machine. If you look at the wrong side of the single bed work, the circular done on the ribber will be facing you and this will usually be shorter than the side worked on the main bed. Leaving main bed tension dial as before, repeat the swatch, taking

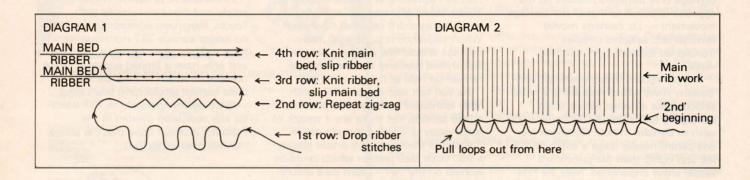
ribber tension dial up by one whole number and compare again. Repeat the process until the bottom hem is flat and firm. Look at the difference between the tension dial settings — e.g. main bed tension dial 4, ribber tension dial 5.. for the same size of stitch in this example, the ribber needs to be set at 1. higher than the main bed. This information will be invaluable for

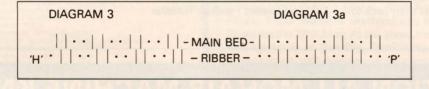
working circular hems, bands and edgings and for working ribbed textiles - the topic for next month.

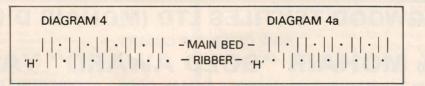
So, hoping I've really helped you get off to a good start with your ribbing, until next month,

Happy knitting

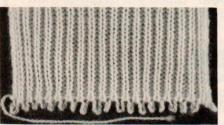




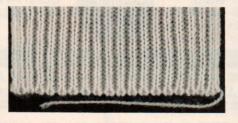




SAMPLE A



SAMPLE B



SAMPLE C



SAMPLE D



SAMPLE E



SAMPLE F



## CAROL CHAMBERS

## **TOYOTA 787 LACE**

My sincere apologies to all 787 readers who were confused by the Toyota lace article in the February 1988 issue. The reverse punching of cards was noted, but the basic difference in the lace is that needles for transfer are selected by the knitting carriage, whilst the transfer carriage only transfers needles (in the opposite direction to that of the carriage movement — i.e. carriage moved towards left, selected needles transferred towards right and vice versal.

The punchcard must reflect not only 'pattern' rows where needles are to be selected, but all rows where main carriage is to be moved. Similarly, if you wish to transfer in both directions (i.e. one centre needle takes a stitch from left and right), then the punchcard would show unpunched 'hole' for first move direction — this row would also be knitted. Transfer carriage moved across work to select and then back to

its starting position. Now another move is required by the main carriage for next selection, but row should not be knitted — so push in empty buttons. Main carriage moved for selection. Transfer carriage moved to opposite side of machine, removing and replacing on rails as required and transfer performed. These 'select and transfer' rows using both carriages are repeated as desired. When sequence is completed, main carriage should end on same side as last knitted row and transfer carriage remain on rails at the opposite end.

As you can see, complex lace with 'fully fashioned' transfers are possible, if a little tedious, but there are a wealth of basic patterns which are quite viable. Diagram 6 from February article shows a 950 basic lace pattern which could be worked on the 787 — turn card around and reverse punching (punch blanks and leave holes). Knitting carriage to right to knit and select needles. Transfer

carriage to right to transfer (towards left), remove transfer carriage and place behind main carriage. Main carriage to left (knit and select), lace carriage to left to transfer, remove and place behind main carriage. Repeat the two row sequence throughout.

In the course of double checking the article and these corrections with Toyota, they have advised me that they no longer service 787 machines (which have not been sold for some years now) and only have a limited supply of spare needles — which will not be available once current stocks have been used.

Once again, apologies to 787 users for any confusion created in the February article, I hope that the above clarifies matters for you.



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## Encore! NICE 'N' EASY DUOMATIC TOP



MACHINES: These instructions are written for Duomatic machines

YARN: Amberyarn Ambergora FIBRE CONTENT: 50% Acrylic, 50% Nylon

COLOUR: We used Shade 203 (MY)

STOCKISTS: If you have any difficulty in obtaining this yarn, please write to Amberyarn, Greendale Mills, Thackley Old Road, Windhill, Shipley, W. Yorks BD18 1QB

#### SIZE

To suit bust 92cm. Finished measurement 102cm. Length 51cm. Sleeve seam 11cm.

#### MATERIALS

Amberyarn Ambergora. 1 x 330g cone in MY.

#### MAIN TENSION

100 sts measures 31.5cm and 100 rows measures 13cm over test square knitted in pattern as shown in Diagram 3 (6 rows N,

2 rows  $\frac{N}{N}$  SS 5/5).

Tension must be matched exactly before starting garment.

until RC shows 327. **ABBREVIATIONS** Now put the needle to the right See page 19. of each back bed needle into **BACK AND FRONT** SLEEVE 42

If you wish to alter the size of the top, add or subtract multiples of 4 needles (2 in WP) 2 in NWP) on each bed and multiples of 8 rows. 8 extra needles will give an increase of approximately 2.5cm in width and 16 rows will give an increase of approximately 2cm

Measurements given are those of finished garment and should not be used to measure work on the machine.

#### **BACK AND FRONT ALIKE**

Set up as shown in Diagram 1 over 160 Ns on each bed. K1 row N at SS 21/2/21/2.

K3 rows  $\frac{CX}{CX}$  at SS  $3\frac{1}{2}\frac{3\frac{1}{2}}{2}$ .

Set RC at 000.

Rack 11/2 turns to left to bring Ns into position as shown in Diagram 2. K2 rows  $\frac{N}{N}$  K2 rows

CX at SS 4/4. Rep these 4 rows

until RC shows 29.

Rack 11/2 turns to right to bring Ns into position as shown in Diagram 1, then transfer the right hand stitch of every back bed pair to the front bed so that the needles are in position as shown in Diagram 3. Bring the pushers into position on front bed as shown in Diagram 3. K1 row N at SS 5.

Set RC at 000. Cont in patt as folls: K6 rows N,

K2 rows  $\underbrace{N}_{N}$ . Rep these 8 rows



WP as shown in Diagram 1. K1 row. Set RC at 000.

Rack 11/2 turns to left to bring Ns into position as shown in Diagram 2. K2 rows N, 2 rows

CX at SS 4/4. Rep these 4 rows

until RC shows 30. Cast off.

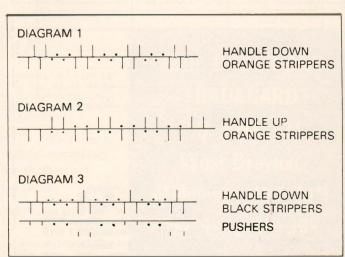
#### **SLEEVES**

Cast on and work in rib as for back over 122 Ns on each bed, then work 56 rows in patt. Cast off loosely.

#### TO MAKE UP

Block each piece, if required, by pinning out to correct measurements then press carefully following instructions on cone band. (Note that only a very light press with a cool iron will be required. There is usually no need to press this yarn when it has been knitted on a double bed machine.)

Join shoulder seams, leaving 25cm open across centre for neck. Set in sleeves. Join side and sleeve seams.



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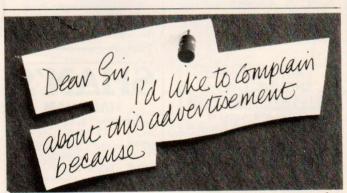
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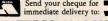
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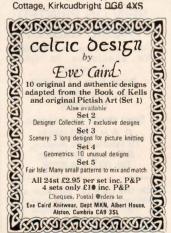
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100% Pure Lambswool, Superkid Mohair, Wool/Alpaca and Wool/Silk blends, 1 to 4 ply. For shade cards send £3.00 and large SAE to: Nina A Miklin, 104 Biddulph

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#### Varns

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Authorised dealers for Knitmaster, Brother, Swissknitter, Simpleframe, Hague. A SPECTRUM of coned yarns, Bramwell, Forsell, Denys Brunton, Knitmaster, Yeoman and many more, we endeavour to keep all shades in stock. Huge selection of publications. Machine knitting school Repairs dept. Overseas mail order customers welcome. Send S.A.E. together with £1.50 for shade cards and

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Varns

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The SALES AREA will be open between 1 p.m. and 3 p.m. on the above dates

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Red



Yarns

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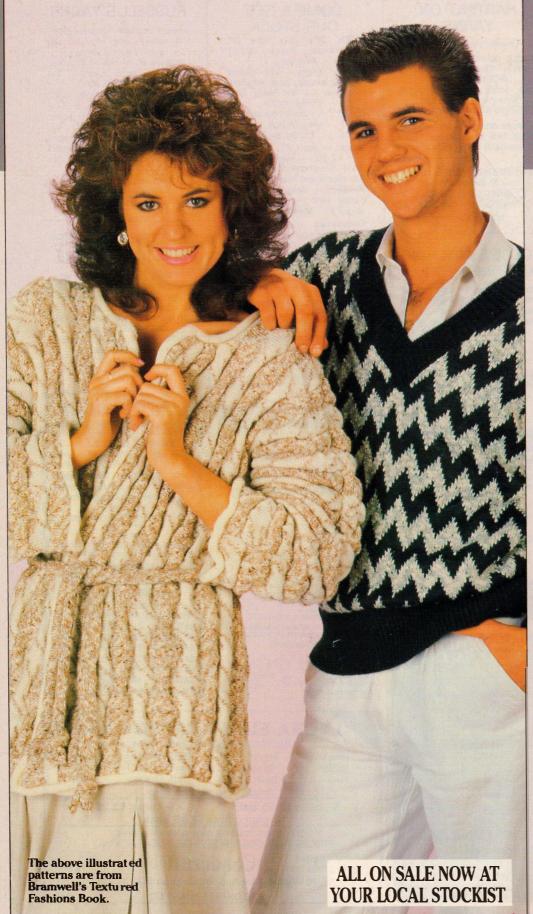
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